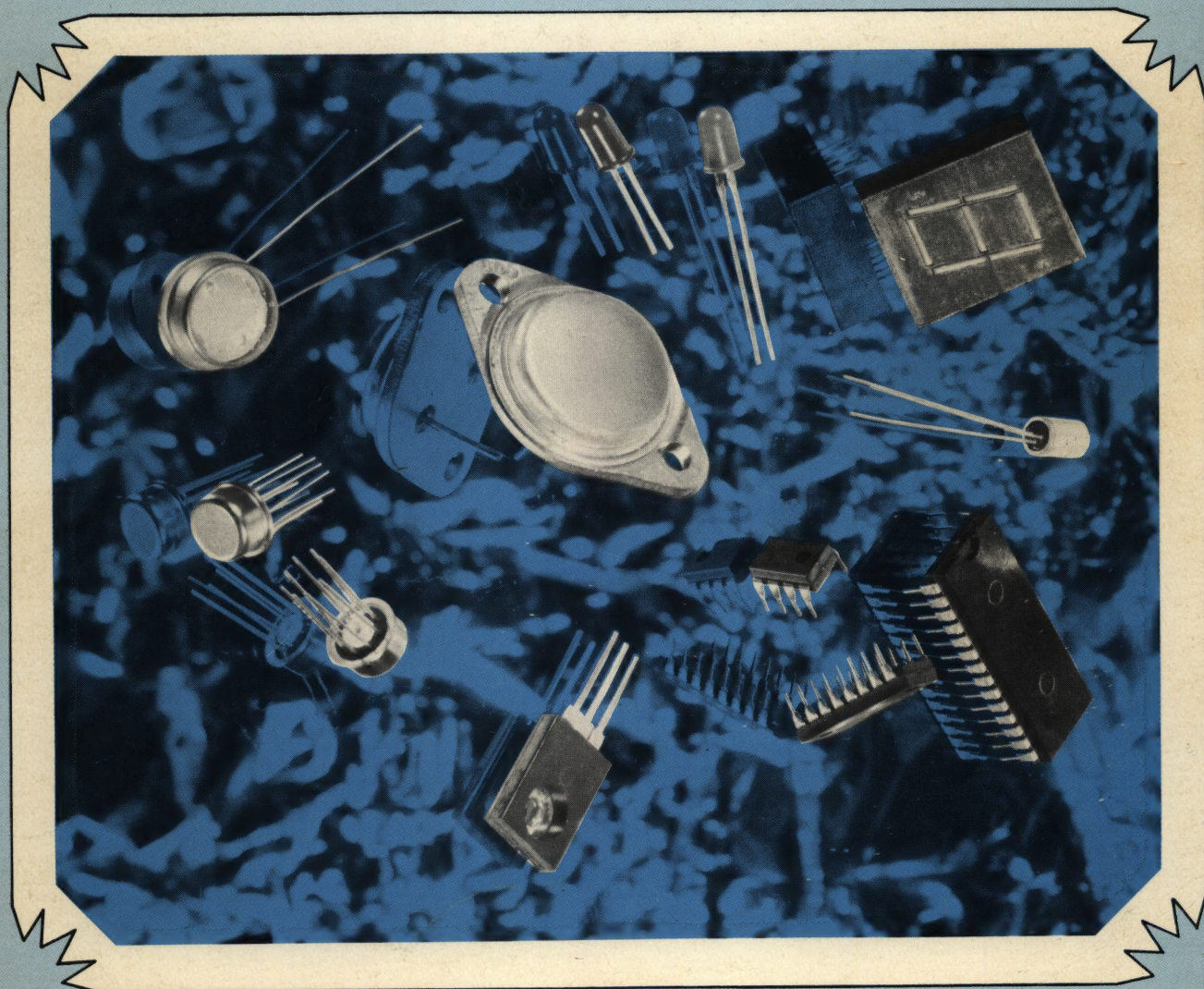


SEMICONDUCTOR REFERENCE HANDBOOK

INCLUDES OVER 36,000 SEMICONDUCTOR SUBSTITUTIONS



INTEGRATED CIRCUIT CROSS REFERENCE BY GENERIC AND CATALOG NUMBER

Generic Number	R.S. Cat. No.	Page No.	Generic Number	R.S. Cat. No.	Page No.	Generic Number	R.S. Cat. No.	Page No.	Generic Number	R.S. Cat. No.	Page No.
RS74C00	276-2301	16	RS709	276-017	32	RS4518	276-2490	26	RS7485	276-1826	48
RS74C02	276-2302	16	RS723	276-1740	33	RS7001	276-1756	36	RS7486	276-1827	48
RS74C04	276-2303	16	RS723	276-009	33	RS7400	276-1801	40	RS7490	276-1808	49
RS74C08	276-2305	16	RS741	276-007	33	RS7402	276-1811	40	RS7492	276-1819	50
RS74C74	276-2310	17	RS741	276-010	33	RS7404	276-1802	40	RS7805	276-1770	37
RS74C76	276-2312	17	RS1458	276-038	34	RS7406	276-1821	41	RS7812	276-1771	37
RS74C90	276-2315	18	RS2102	276-2501	39	RS7408	276-1822	41	RS7815	276-1772	37
RS74C192	276-2321	18	RS3900	276-1713	34	RS7410	276-1807	41	RS13741	276-1733	37
RS74C193	276-2322	18	RS3909	276-1705	35	RS7413	276-1815	42	RS50252	276-1751	38
RS239	276-1729	27	RS3911	276-1706	35	RS7420	276-1809	42	RS74123	276-1817	50
RS324	276-1711	27	RS4001	276-2401	19	RS7427	276-1823	42	RS74145	276-1828	51
RS339	276-1712	28	RS4011	276-2411	19	RS7432	276-1824	43	RS74150	276-1829	52
RS377	276-702	28	RS4013	276-2413	20	RS7441	276-1804	43	RS74154	276-1834	53
RS380	276-1725	29	RS4017	276-2417	21	RS7447	276-1805	44	RS74192	276-1831	54
RS386	276-1731	29	RS4020	276-2420	22	RS7448	276-1816	45	RS74193	276-1820	55
RS555	276-1723	30	RS4027	276-2427	23	RS7451	276-1825	45	RS74194	276-1832	56
RS556	276-1728	30	RS4049	276-2449	24	RS7473	276-1803	46	RS74196	276-1833	57
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RS703	276-1738	32	RS4511	276-2447	25	RS7476	276-1813	47			

INTEGRATED CIRCUIT CROSS REFERENCE BY CATALOG AND GENERIC NUMBER

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276-009	RS723	33	276-1733	RS13741	37	276-1816	RS7448	45	276-2303	RS74C04	16
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276-1705	RS3909	35	276-1772	RS7815	37	276-1823	RS7427	42	276-2401	RS4001	19
276-1706	RS3911	35	276-1801	RS7400	40	276-1824	RS7432	43	276-2411	RS4011	19
276-1711	RS324	27	276-1802	RS7404	40	276-1825	RS7451	45	276-2413	RS4013	20
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276-1725	RS380	29	276-1808	RS7490	49	276-1832	RS74194	56	276-2450	RS4050	24
276-1728	RS556	30	276-1809	RS7420	42	276-1833	RS74196	57	276-2490	RS4518	26
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100	INTERNAL DEL

INTRODUCTION

This SEMICONDUCTOR REFERENCE HANDBOOK is intended to be just that—a reference handbook. It is not a definitive text book on semiconductors. It is a compilation of data on Radio Shack's line of prime-quality ARCHER semiconductors. Every ARCHER device covered in this Handbook is guaranteed prime—they are not "fall-outs" or "seconds"; all are top-quality, with known JEDEC, EIA or manufacturer's numbers.

At the back of the book is a cross-reference listing for replacement of Transistors, Diodes and other interchangeable semiconductor devices. The total number of cross-referenced devices exceeds 36,000. These cross-reference/replacement listings are computer-selected and are based on careful analysis of important parameters of the listed devices.

NOTE: If you can't find a replacement listing for a device you require, refer to the specification listings of the appropriate ARCHER family device. Often you will be able to make suitable replacements based on the information presented

Each ARCHER replacement should meet or exceed the required parameters. However, due to differences in Quality Control and Manufacturing procedures (which often allow for or result in broad parameter variations), and because many of the ARCHER devices are capable of better performance than the original, Radio Shack does not guarantee, nor does it imply, that the listed items will provide an exact replacement in **every** instance. Therefore we recommend that you check the voltage and current requirements of the circuit (and other pertinent specifications) before replacement and compare with the specifications listed for that particular ARCHER device.

HOW TO USE THIS BOOK

This book has been prepared to aid in BOTH replacement and original applications of Semiconductor devices. The information included will be invaluable for the service technician as well as the circuit designer (whether he be an engineer, hobbyist, student or electronics experimenter).

We have included hints on handling Semiconductor devices, operating considerations, and some simple tests to aid you in evaluating the quality of the device in existing equipment (and thus the need for replacement). Also, a complete section on the specifications for each of the ARCHER devices is included; if there is any question in your mind about replacement equivalents or original use, refer to the appropriate category in the book. You will find the important characteristics specified there.

The next to last section is an extensive listing of replacement and cross reference between other manufacturer's numbers (both JEDEC/EIA 2N—numbers and in-house designations) and the ARCHER devices. This listing provides for the substitution of over 36,000 semiconductors with ARCHER devices.

The final section includes case style drawings and some handy reference notes, a comprehensive glossary of commonly used words, plus symbols and abbreviations.

CARE AND HANDLING OF TRANSISTORS

Most modern transistors are somewhat immune from mechanical shock; however, it is always a good idea to keep them from excessive mechanical shocks, especially the metal-case type (avoid dropping, etc).

When cutting transistor leads, use scissor-type cutting tools (rather than diagonal cutting tools which use a crimping action). Crimp-type cutting tools produce a mechanical shock along the lead which when transmitted to the semiconductor chip or material can cause fracture. Consider the force with which the cut lead flies off the crimp-type cutting tool and you have a good idea of the intensity of the equal and opposite force which acts on the lead going into the device.

It is always a good practice to use a heat-sink tool on a transistor lead when soldering (use a low-wattage iron—30-watts or less). Heat from soldering can cause problems (especially with certain types of semiconductor devices). Thus, to be sure, always use a heat-sink on the lead when soldering. Gripping the lead with long nose pliers between the solder connection and the case of the device makes a good heat-sink; or use a tool designed for such use.

SILICON OR GERMANIUM?

The quickest way to determine if a transistor is germanium or silicon type, is to check the normal emitter-base voltage drop. With NPN devices, if the base is approximately 0.25 volts positive with respect to the emitter, it is a germanium type. If the voltage is about 0.65 volts, it is a silicon type. For PNP devices, the voltage will be the same value, but opposite in polarity (0.25 volts for germanium and 0.65 for silicon).

OPERATING CONSIDERATIONS

Before replacing an original-equipment device with the recommended Archer Type:

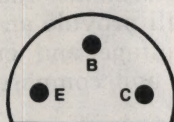
(A) Compare the lead or terminal arrangement of the Archer replacement device with the lead or

terminal arrangement of the original device. If these arrangements are different, and the original transistor is a "plug in" type, bend the leads of the ARCHER device so that the base, emitter and collector leads will mate with the original transistor leads. Trim the leads after soldering in place.

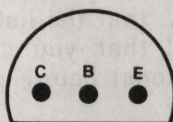
CAUTION: Be particularly careful about "pin-circle" and "in-line" lead break-out type transistors. Often one manufacturer makes a type with "in-line" leads, while another may make the same type with "pin-circle" configuration. **Double-check both the original and the replacement device before soldering or plugging in transistors.**

BOTTOM VIEW

PIN-CIRCLE



IN-LINE



(B) Certain considerations are involved whenever an original equipment transistor is replaced by one having a different type designation. When an ARCHER series transistor is used to replace an original equipment device in an untuned amplifier stage operating at a low signal level such as the untuned RF-amplifier (antenna) stage of a radio receiver, or a low-level AF amplifier stage, it is generally unnecessary to make any circuit adjustment to assure proper performance of the equipment. However, when a replacement is made in a tuned RF amplifier stage, it is always advisable to check the alignment of the associated tuned circuits to assure proper tracking and to achieve the required gain without loss of stability.

(C) When replacements are made in stages operating at relatively high power levels, such as Class A and Class B, AF output stages of automobile radio receivers, phonographs and AF-amplifier systems, the transistor bias should be checked and adjusted, if necessary, to protect the ARCHER replacement transistors against excessive dissipation and to minimize distortion. Means for making adjustments are generally provided in the equipment, and the necessary instructions are usually given in the equipment manufacturer's service data.

(D) When installing an ARCHER transistor as a substitute for an original equipment type in an FM tuner, TV tuner, or other circuits operating at frequencies in the VHF or UHF regions, it is extremely important not to change any of the lead lengths or position of the original circuit. Before removing the original transistor, carefully note its position with respect to other circuit components as well as the lengths and placement

of the transistor leads, and duplicate these details as closely as possible with the ARCHER replacement transistor. Failure to observe this precaution can result in improper tuning or circuit instability. The same holds true for any replacement of Integrated Circuits, especially in FM radios and TV Receivers. Failure to observe this precaution can result in damage in the device. Transistor substitution in tuned circuits will often require realignment of the circuit.

SILICON VS SELENIUM RECTIFIERS

Silicon rectifiers are inherently more efficient than selenium or other metallic-oxide type rectifiers. When a silicon rectifier is used to replace a selenium rectifier in the power supply of a typical line-operated radio or TV receiver, the silicon rectifier will frequently deliver higher DC output voltage than the original device.

In some cases, this higher supply voltage may improve the performance of the equipment. However, in many other cases, it may immediately or eventually damage filter capacitors and/or other components which were designed to withstand only the voltage delivered by the original selenium rectifier. To prevent such damage, it is generally advisable to insert a power type resistor in series with the silicon rectifier either on the input side, between the AC supply and the rectifier, or on the output side between the rectifier and the first filter capacitor. The value of this resistor will depend on the required reduction in the DC output voltage and on the DC load current of the equipment. This value may be determined experimentally or calculated from the equation:

$$R = \frac{E}{I}$$

where R is the required resistance in ohms, E the required reduction in DC output voltage in volts and I the DC load current in amperes.

The wattage rating of the resistor should be at least $2 \times EI$ (in no case less than 10 watts).

SOLDERING PRECAUTIONS

Extreme care should always be used in making solder connections to semiconductors. Momentary application of excessive heat, or even prolonged application of a properly heated soldering tool to a semiconductor lead or terminal, can permanently damage the device. Observe the following precautions in soldering a semiconductor lead or terminal:

1. Solder as far as possible from the body of the semiconductor.
2. Never, apply heat or molten solder to a lead or terminal for longer than 10 seconds or at a point closer than 1/16 inch to the body of the device.
3. Use a low voltage iron (30 watts or less) specifically intended for use with transistors or miniature circuit components.

4. Keep the surfaces to be soldered clean and the tip of the soldering tool adequately tinned so that the connection can be made as quickly as possible.

5. Always use a heat sink on the lead when soldering. Gripping the lead or terminal with long-nose pliers between the solder connection and case or body allows the pliers to act as a heat sink, conducting heat away from the internal elements of the device.

ABOUT CASE DIMENSIONS

In some instances, the case of an ARCHER Semiconductor may be slightly taller or thicker than that of the original device or have a slightly different shape, particularly if the original device is a foreign type not made to U.S.A. EIA (JEDEC) standards. These mechanical differences should not affect the performance of the equipment in which the replacement is made and normally will not prevent or complicate the installation of the ARCHER replacement device.

You should realize that cross-reference substitution listings are created based on **electrical parameters (not necessarily on mechanical size or type)**. Thus, when you make substitutions based on our listings, check for physical/mechanical compatibility. If space is limited, it would be a good idea to check physical dimensions as well as electrical specs before making substitution.

GENERAL PRECAUTIONS

ARCHER transistor and ARCHER semiconductors should not be inserted or withdrawn from circuits with the power on, because transient currents may cause permanent damage to the device. In some cases ARCHER semiconductors are in metal cans and thus could possibly become shock hazards if they are allowed to operate at a voltage appreciably above or below ground potential.

For the most effective protection, a power transistor should be operated with an adequate heat sink and with the lowest value of resistance or impedance in the emitter-to-base circuit consistent with driving signal considerations. The transistor should be protected against extremely high collector voltage pulses which may be generated when the device is operated with inductive loads particularly when current transients are present.

When replacing a power transistor or rectifier which is attached to the equipment chassis, or to a special heat sink, observe the following precautions:

A. In the case of oxide coated metal washers or wafers, which are frequently used as electrical insulators between the cases of power transistors and the chassis or heat sink, it is important not to scratch, chip or otherwise damage the oxide surface.

B. When installing an ARCHER power transistor, where a mica or oxide coated metal washer was

used to insulate the case of the original device electrically from the case, apply a thin coating of Heat Sink Compound (Radio Shack Number 276-1372) between the washer and the chassis or heat sink.

TESTING A TRANSISTOR

Before replacing a transistor you want to be sure it needs to be replaced. Always check the entire circuitry to be sure the transistor requires replacement.

The best method for checking transistors is to use a good transistor checker (dynamic in-circuit and out-of-circuit type). However, a sensitive VOM can give you a good indication of the quality of the device.

I. In-Circuit Testing

- A. First, check to see if the emitter-base junction is forward-biased. An NPN transistor should show the base 0.2 to 0.65 volts positive with respect to the emitter (approximately 0.25 volts for a germanium type and 0.6 volts for silicon). A PNP transistor should show the base 0.2 to 0.65 volts negative with respect to the emitter (0.25 volts for germanium and 0.6 volts for silicon).
- B. Check to see if the device is functioning as an amplifier. Short the emitter-base junction to remove forward bias. Voltage at the collector lead should rise to approximately the potential of the collector supply buss line. Any difference is caused by ICES (collector-to-base leakage current). The closer the collector voltage approaches the buss line, the lower ICES is and the better the transistor.

II. Out-of-Circuit Testing

Again, for the best indication of transistor quality, use a good transistor checker. However, an ohmmeter can be used as described here.

Before using the ohmmeter, find out which polarity of the internal ohmmeter battery is connected to which test lead (not all ohmmeters have the + battery polarity connected to the red lead and the - battery polarity connected to the black lead). To determine the polarity of the leads when using the ohmmeter function, use an external voltmeter or study the schematic of your VOM.

Also, remember that in most transistor circuits you are dealing with low voltages and currents (in some cases, very low). Therefore, **NEVER** use RX1 scale (extensive currents can flow through a junction, permanently damaging the transistor). It is best to determine the maximum amount of current available in each resistance range before using an ohmmeter for testing semiconductor junctions.

After you have evaluated your VOM for the above and are sure you will not damage a transistor (with excessive current or voltage in any given ohmmeter range), proceed as follows:

A. Small Signal PNP Germanium Transistors

1. Connect the positive lead of your ohmmeter to the emitter. Connect the negative lead to the base. You should read 200-500 ohms.
2. Connect the negative lead to the collector. You should read 10K-100K. Shorting collector base, the resistance should decrease.

B. Small Signal NPN Germanium Transistors

Reverse the polarity of the leads; the readings should be approximately the same.

C. Power PNP Germanium Transistors

1. Connect the positive lead to the emitter. Connect the negative lead to the base. The reading should be 35-50 ohms.
2. Connect the negative lead to the collector. The reading should be several hundred ohms. Shorting collector to base, the resistance should decrease.

D. Power NPN Germanium Transistors

Reverse the polarity of the leads; the reading should be approximately the same.

E. Small Signal PNP Silicon Transistors

1. Connect the positive lead to the emitter. Connect the negative lead to the base. The reading should be 1K-3K.
2. Connect the negative lead to the collector. The reading should be very high (may show as an "open").

F. Small Signal NPN Silicon Transistors

Reverse the polarity of the leads; the readings should be approximately the same.

G. Power PNP Silicon Transistors

1. Connect the positive lead to the emitter. Connect the negative lead to the base. The reading should be 200-1K.
2. Connect the negative lead to the collector. The reading should be about 1 megohm or more.

H. Power NPN Silicon Transistors

Reverse the polarity of the leads; the readings should be approximately the same.

The resistance readings noted above can only be approximate; as long as you obtain somewhat **proportionate** readings (emitter-base readings as compared to emitter-collector), you can safely assume the transistor is OK.

HANDLING OF INTEGRATED CIRCUITS

Because MOS devices have extremely high input resistance, they are susceptible to damage when exposed to static electrical charges (even electrical charges that normally build up on the human body can cause damage). To avoid possible damage to the devices during handling, testing, or actual operation, the following procedures should be observed:

1. Except when being tested or in actual operation, the leads of devices should be in contact with a conductive material, to avoid build-up of static charge.
2. Soldering iron tips, tools, metal parts of fixtures and handling facilities should be grounded.
3. Transient voltages may cause permanent damage to the device if it is removed, or inserted, with the power on.
4. Do not apply signals to the inputs with the power supply off.
5. All unused input leads must be connected to either VSS or VDD whichever is appropriate for the logic circuit involved.

DIODES AND RECTIFIERS

GENERAL PURPOSE DIODES RATINGS @ 25°C

Radio Shack Number	PIV (min) V	If A	Ir (max) @ Vr μ A	Vf (max) V	Case Style
276-1101	50	1.0	10	1.6	DO41
276-1102	200	1.0	10	1.6	DO41
276-1103	400	1.0	10	1.6	DO41
276-1104	600	1.0	10	1.6	DO41
276-1114	1000	2.5	200	1.0	A1vm
276-1122	75	.010	.25	1	A1
276-1141	50	3.0	500	1.2	A3q
276-1142	100	3.0	500	1.2	A3q
276-1143	200	3.0	500	1.2	A3q
276-1144	400	3.0	500	1.2	A3q

ZENER DIODES—1 Watt

Radio Shack Number	Vz Volts + 15% @ mA	Iz mA	Zz @ Iz ohms max	Case Style
276-561	6.2	41	2	A1 ay
276-562	9.1	25	7	A1 ay
276-563	12.0	21	9	A1 ay
276-564	15.0	17	14	A1 ay

BRIDGE RECTIFIERS

Radio Shack Number	PIV (min) V	If (max) A	Case Style
276-1146	50	4	M532a
276-1151	50	2	M548
276-1152	100	2	M548
276-1171	100	4	M532a
276-1172	200	4	M532a
276-1173	400	4	M532a

TRANSISTORS

BIPOLAR

Radio Shack Number	Material	Application	Polarity	Power Diss. @ 25°C Free Air	f _T Typical MHz	V _{CBO} V	V _{CEO} V	V _{EB0} V	I _C Max	I _B Max	hFE Minimum		I _{CBO} at max V _{CB}	Case style	
											@V _{CE} V	@I _C mA			
276-2001/RS2001	G	S	NPN	150mW	5	25	25	25	300mA		150	1	10	6μA	TO5
276-2002/RS2002	G	L.L.	NPN	200mW	—	25	—	—	150mA		150	15	30	15μA	TO1
276-2003/RS2003	G	G.P.	PNP	50mW	50	20	—	1.5	1.5 mA		75	6	1	12μA	TO44
276-2004/RS2004	G	G.P.	PNP	170mW	—	25	—	25	75mA		95	1.5	30	15μA	TO1
276-2005/RS2005	G	G.P.	PNP	150mW	—	25	—	1.5	200mA		135	1.5	30	15μA	TO1
276-2006/RS2006	G	P.	PNP	30W	0.35	30	30	10	7A		80	1.5	1A	500μA	TO3
276-2007/RS2007	G	S.	PNP	150mW	5	30	—	25	300mA		130	1	10	6μA	TO5
276-2008/RS2008	S	H.V.	NPN	1W	50	300	300	7	30mA		40	20	30	100nA	TO92+
276-2009/RS2009	S	G.P.	NPN	500mW	300	75	40	6	800mA		50	10	1	10nA	TO92
276-2010/RS2010	S	L.L.	NPN	360mW	15	60	60	6	50mA		250	5	1	10nA	TO92
276-2011/RS2011	S	RF/IF	NPN	200mW	600	30	15	3	50mA		20	1	3	10nA	TO92
276-2012/RS2012	S	H.V.	NPN	800mW	30	300	300	7	150mA		35	25	30	50nA	TO92
276-2013/RS2013	S	G.P.	NPN	350mW	30	50	50	4.5	50mA		250	5	1	50nA	TO92
276-2014/RS2014	S	G.P.	NPN	360mW	100	50	30	5	800mA		100	2	50	100nA	TO92
276-2015/RS2015	S	RF/IF	NPN	250mW	600	30	20	4	50mA		40	10	2	100nA	TO92
276-2016/RS2016	S	S.	NPN	350mW	300	60	40	6	200mA		100	10	1	50nA	TO92
276-2017/RS2017	S	P.	NPN	40W	3	40	40	5	3A	1A	10-50	4	3A	300μA	TO220
276-2018/RS2018	S	P.	NPN	40W	3	40	40	5	1A	400M	15	4	1A	300μA	TO220
276-2019/RS2019	S	P.	NPN	90W	3	40	40	5	10A	3A	20	4	3A	700μA	TO220
276-2020/RS2020	S	P.	NPN	90W	3	100	70	7	15A	7A	20	4	4A	1mA	TO220
276-2021/RS2021	S	RF/IF	PNP	350mW	500	12	12	4	80mA		30	0.3	10	10nA	TO92
276-2022/RS2022	S	L.L.	PNP	350mW	40	50	50	3	50mA		250	5	1	50nA	TO92
276-2023/RS2023	S	S.	PNP	400mW	200	60	40	5	600mA		50	10	1	20nA	TO92
276-2024/RS2024	S	G.P.	PNP	360mW	100	40	25	5	200mA		60	5	50	0.5μA	TO92
276-2025/RS2025	S	P.	PNP	40W	3	40	46	5	3A	1A	10-50	4	3A	200μA	TO220
276-2026/RS2026	S	P.	PNP	40W	3	40	40	5	1A	400M	15	4	1A	300μA	TO220
276-2027/RS2027	S	P.	PNP	90W	3	40	40	5	10A	3A	20-100	4	3A	200μA	TO220
276-2030/RS2030	S	P.	NPN	1W	100	60	40	5	700mA		50	10	150	—	TO92+
276-2031/RS2031	S	G.P.	NPN	200mW	40	30	25	6	50mA		120	5	1	50nA	TO92
276-2032/RS2032	S	RF/IF	PNP	600mW	100	25	25	4	500mA		30	3	10	10nA	TO92
276-2033/RS2033	S	S.	NPN	350mW	200	60	30	5	500mA		100	10	150	50nA	TO92
276-2034/RS2034	S	S.	PNP	350mW	250	40	40	5	200mA		100	10	1	50nA	TO92
276-2038/RS2038	S	RF.	NPN	1W	500	60	30	3.5	400mA		100	5	50	100μA	TO39
276-2039/RS2039	S	P	NPN	100W	15	45	40	5	12A	5A	100	4	1A	—	TO3
276-2040/RS2040	S	P	PNP	100W	15	45	40	5	12A	5A	100	4	1A	—	TO3
276-2041/RS2041	S	P	NPN	115W	2.5	100	60	7	15A	7A	50	4	1A	—	TO3
276-2042/RS2042	S	P	NPN	120W	—	60	60	7	15A	.25A	20,000	3	4A	—	TO3
276-2043/RS2043	S	P	PNP	150W	4	100	60	7	15A	7A	70	10	.5	—	TO3

NOTE: All ratings given are for 25°C except where otherwise noted.

MATERIAL:

S—Silicon; G—Germanium

APPLICATION:

S—Switch

L.L.—Low Level

RF—RF power

G.P.—General purpose

P—Power amp/switch

H.V.—High voltage

FIELD EFFECT

Radio Shack Number	Circuit Application	N Channel	P Channel	Max. Power Diss. mW	V_{DS} V (max)	V_{GS} V (max)	g_{fs} mhos min/max	Case Style
276-2028	small signal VHF mixer and AMP	X		330	50	50	1.5m/4.5m	TO92
276-2035	small signal general purpose	X		360	25	25	2.0n/6.5m	TO92
276-2036	RF Amp to 200 MHz	X		300	30	30	3.5m/6.5m	TO72
276-2037	general purpose small signal		X	310		40	1.0m/4.0m	TO92

NOTE: All parameters are at 25°C.

UNIJUNCTION

Radio Shack Number	Max Power Diss.	r_{BB} (max)	η (max)	V_{EB1} (sat)	V_{OB1} (min)	I_P (max)	Case Style
276-2029	360mW	9.1K	0.82	4.0V	3.0V	5.0μA	X55

276-026

LIGHT EMITTING DIODE

GENERAL DESCRIPTION

This device is a large area light source which contains diffusing particles in the plastic encapsulant. When the device is "ON", it appears as a large, soft light source, making it ideally suited for front panel applications.

FEATURES

- The LED (light emitting diode) is contained in a black case, giving excellent contrast when "ON".

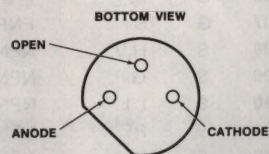
RADIANT CHARACTERISTICS IF= 20 mA (25°C)

Luminous Intensity.....	0.3 mcd
Luminous Flux.....	1.35 mlumen
Wavelength @ Peak.....	650 nm
Spectral Line Width.....	25 nm
Rise and Fall Time.....	10 ns
Angle of Half Intensity.....	35 degrees
Angle of 0.1 Intensity.....	35 degrees

ABSOLUTE MAXIMUM RATINGS

Forward DC Current.....	50 mA
Reverse Voltage.....	3 Volts
Power Dissipation-Derate 1.3mW/°C above 25°C.....	100 mW
Storage Temperature.....	-40°C to 100°C
Operating Temperature.....	-40°C to 100°C
Relative Humidity @ 65°C.....	98%
Solder Temperature for 5 seconds.....	250°C @ 0.1" from Seating Plane

PIN CONNECTION



All Leads Electrically Isolated From Case.
Base Lead May or May Not Be Present.



276-040

LIGHT EMITTING DIODE

GENERAL DESCRIPTION

Red LED lamp with a frosted, diffused lens. Emits soft, visible light with a large, wide angle viewing area.

APPLICATIONS

- Pilot lamps • Indicator lamps • Film annotation • Optical coupling

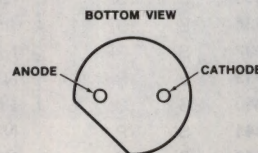
OPERATING SPECIFICATIONS

Forward voltage.....	1.75 V
Reverse breakdown.....	4.0 V

ABSOLUTE MAXIMUM RATINGS

Forward dc current.....	50 mA
Reverse voltage.....	4.0 V
Power dissipation.....	100 mW

PIN CONNECTION



276-041

LIGHT EMITTING DIODE

GENERAL DESCRIPTION

Red LED lamp with a diffused lens—GaAsP solid state device.

APPLICATIONS

- Pilot lamps • Indicator lamps • Film annotation • Optical coupling

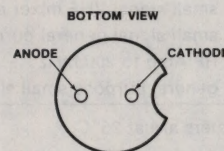
OPERATING SPECIFICATIONS

Forward voltage.....	1.75 V
Reverse breakdown.....	3.0 V

ABSOLUTE MAXIMUM RATINGS

Forward dc current.....	70 mA
Reverse voltage.....	3.0 V
Power dissipation.....	140 mW

PIN CONNECTION



LIGHT EMITTING DIODE

276-042

GENERAL DESCRIPTION

Subminiature, red LED lamp with a diffused lens. Emits bright light with solid state reliability; is compatible with most TTL and DTL Circuits.

APPLICATIONS

- Visual indicators
- Alpha-numeric displays
- Built in diagnostics

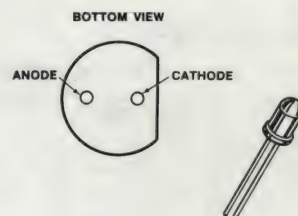
OPERATING SPECIFICATIONS

Forward Voltage 1.6 V
Reverse Current 0.1 μ A

ABSOLUTE MAXIMUM RATINGS

Reverse Voltage 3.0 V
Forward Current 40 mA

PIN CONNECTION



LIGHT EMITTING DIODE

276-047

GENERAL DESCRIPTION

Jumbo LED with diffused lens, IC compatible—gallium arsenide phosphide (GaAsP) solid state device.

APPLICATIONS:

- Pilot lamps
- Indicator lamps
- Film annotation
- Optical coupling

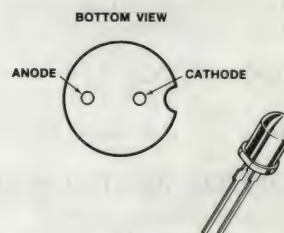
OPERATING SPECIFICATIONS (TA @ 25°C)

Forward Voltage 1.75 V (typ)
Light Intensity @ 20 mA 1.0 mcd (typ)
Lead Temperature (Soldering, 5 sec) 260°C

ABSOLUTE MAXIMUM RATINGS (TA @ 25°C)

Reverse Voltage 3 V
Forward DC Current 70 mA
Power Dissipation 140 mW

PIN CONNECTION



0.3" SOLID STATE SEVEN SEGMENT INDICATOR

276-053

GENERAL DESCRIPTION

The 276-053 is a common cathode LED numeric display with a right hand decimal point. The large 0.3" high character size generates a bright, continuously uniform 7 segment display. Designed for viewing distances of up to 10 feet, this single digit display has been human engineered to provide a high contrast ratio and wide viewing angle.

FEATURES

- Common Cathode
- Right Hand DP
- Excellent Character Appearance—Continuous Uniform Segments; Wide Viewing Angle; High Contrast
- IC Compatible—1.6 V per Segment
- Standard 0.3" DIP Lead Configuration; PC Board or Standard Socket Mountable
- Categorized for Luminous Intensity—Assures Uniformity of Light Output from Unit to Unit within a Single Category

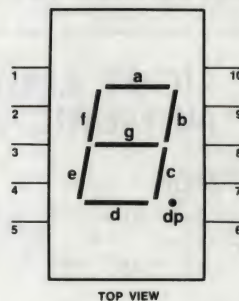
APPLICATIONS

- Electronic Calculators
- Credit card verifiers
- TVs
- Radios
- Digital clocks

ABSOLUTE MAXIMUM RATINGS

Power Dissipation TA = 25°C 400 mW
Operating Temperature Range -20°C to 85°C
Storage Temperature Range -20°C to 85°C
Average Forward Current/Segment or Decimal Pt. TA = 25°C 25 mA
Peak Forward Current/Segment or Decimal Pt. TA = 25°C (Pulse Duration 500 us) 150 mA
Reverse Voltage/Segment or Decimal Pt. 6 V
Max. Solder Temperature 1/16" Below Seating Plant (ts5 sec.) 230°C

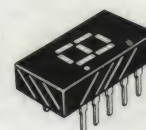
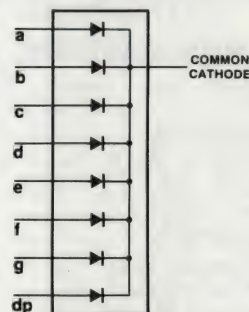
PIN CONNECTION



PIN	FUNCTION
1	CATHODE (1)
2	ANODE - f
3	ANODE - g
4	ANODE - e
5	ANODE - d
6	CATHODE (1)
7	ANODE - dp
8	ANODE - c
9	ANODE - b
10	ANODE - a

Note 1. Redundant cathodes.

EQUIVALENT CIRCUIT



276-055

3 DIGIT LED MULTIPLEXED DISPLAY

GENERAL DESCRIPTION

The 276-055 is a 3 digit common cathode, 7-segment right hand decimal point display.

APPLICATIONS

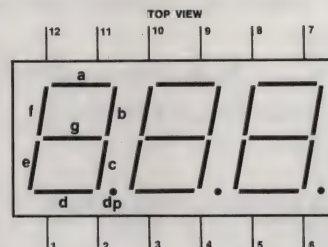
- Digital clocks
- Digital voltmeters
- Calculators

TYPICAL RATINGS

Typical ratings:

Forward Voltage.....	1.7 V
Luminance.....	300 fl
Forward Current.....	5 mA
PRV.....	3 V

PIN CONNECTION



PIN	FUNCTION
1	CATHODE - 1
2	ANODE - e
3	ANODE - d
4	CATHODE - 2
5	ANODE - c
6	ANODE - dp
7	CATHODE - 3
8	ANODE - b
9	ANODE - a
10	ANODE - f
11	ANODE - g
12	NC

276-056

0.6" SEVEN SEGMENT NUMERIC DISPLAY

GENERAL DESCRIPTION

This device is a single digit numeric display. They are compatible with bipolar and MOS IC's. They provide fast switching—excellent for multiplexing—and the 0.6 inch character height provides a viewing distance up to 25 feet. This device is common anode.

APPLICATIONS

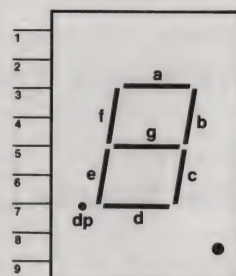
- Digital clocks
- Panel meters
- TV channel indicators
- Elevator floor indicators
- Calculators

ABSOLUTE MAXIMUM RATINGS

Power Dissipation $T_A = 25^\circ\text{C}$	960mW
Power Derate Factor from 25°C	-6.6 mW/ $^\circ\text{C}$
Storage and Operating Temperature.....	0°C to 85°C
DC Current/Segment or DP, $T_A = 25^\circ\text{C}$	30 mA
Average Current/Segment or DP, $T_A = 25^\circ\text{C}$	25 mA
Peak Current/Segment or DP, $T_A = 25^\circ\text{C}$	250 mA
Reverse Voltage/Segment.....	6.0 V
Solder Temperature 1/16" below Seating Plane, t_s 5 seconds.....	240°C

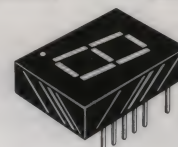
PIN CONNECTION

TOP VIEW



PIN	FUNCTION
1	NO PIN
2	CATHODE - a
3	CATHODE - f
4	ANODE - e
5	ANODE - d
6	CATHODE - dp
7	NO PIN
8	NO PIN
9	NO PIN
10	NO PIN
11	CATHODE - d
12	ANODE - c
13	CATHODE - b
14	CATHODE - g
15	CATHODE - a
16	NO PIN
17	NO PIN
18	NO PIN

*Common redundant anodes



276-057

LIGHT EMITTING DIODE SINGLE DIGIT NUMERICAL DISPLAY

GENERAL DESCRIPTION

This device is a 1/4" single digit numerical display. It is very compact—up to 10 digits in a 3" panel—yet it is easily readable within a ten foot range. Uses low power (125 mW per digit, typical), and low current (12 mA per segment, typical).

APPLICATIONS

- Computer terminal readouts
- Digital panel meters
- Desk calculators
- Industrial controls
- Digital instruments

ABSOLUTE MAXIMUM RATINGS

Reverse Voltage.....	3 V
Peak Current/Segment.....	250 mA
Solder Temperature for 5 seconds.....	250°C

Typical Ratings:

Forward Voltage*	1.9 V
Luminous Intensity**	0.3 mcd
Reverse Breakdown Voltage***	8 V

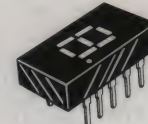
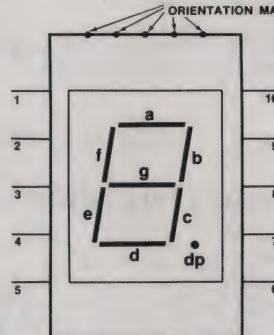
*Forward Current 150 mA/segment

**Forward Current 20 mA/segment

***Reverse Current 100 μA /segment

PIN CONNECTIONS

TOP VIEW



PIN	FUNCTION
1	COMMON CATHODE
2	Segment - f
3	Segment - g
4	Segment - e
5	Segment - d
6	COMMON CATHODE
7	Segment - dp
8	Segment - c
9	Segment - b
10	Segment - a

LED 9 DIGIT NUMERIC DISPLAY

276-060

GENERAL DESCRIPTION

The 276-060 is a nine monolithic digit common cathode GaAsP, LED, numeric display, with a nominal 1/8 inch character height. Each digit comprises seven segments with a right hand decimal point. Eight inputs are provided for selection of the appropriate segments and decimal (anodes) and nine inputs for digit (cathodes) selection. The anodes are internally interconnected for multiplexing. Simple interface circuits may be used for TTL, DTL, or MOS operation.

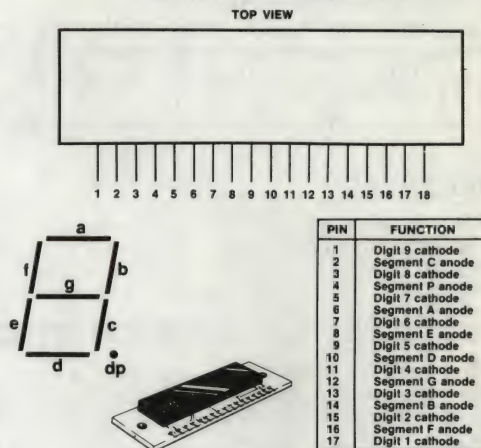
APPLICATIONS

- Direct drive from MOS
- Hand held calculators
- Digital instruments
- Industrial controls
- Data terminals
- Instrumentation
- Electronic test and measurement equipment

ABSOLUTE MAXIMUM RATINGS

Average Current per Segment..... 5.0 mA max
 Peak Current per Segment..... 60 mA max
 Reverse Voltage.....3.0 V max
 Operating and Storage Temperatures -20°C to 70°C
 Terminal Temperature (Soldering, 5 seconds)..... 230°C max

PIN CONNECTION



COMMON CATHODE SEVEN SEGMENT DISPLAY

276-062

GENERAL DESCRIPTION

The 276-062 is a common cathode LED numeric display with decimal point. The large 0.3" high character size generates a bright, continuously uniform 7 segment display. It is designed for viewing distances up to 10 feet and provides a high contrast ratio and wide viewing angle. This single digit display can be mounted on a PC board or in a standard IC socket. It requires a forward voltage of 1.7 volts and is IC compatible.

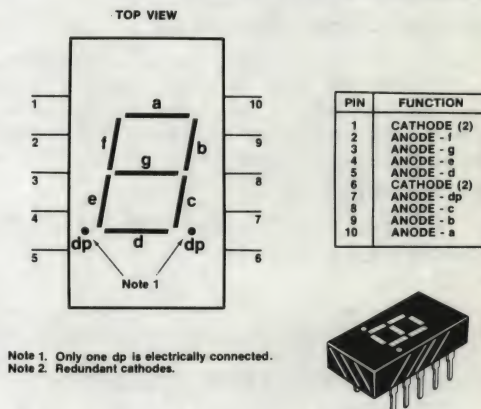
APPLICATIONS

- Digital clocks
- Electronic calculators
- Credit card verifiers
- TV's
- Radios

ABSOLUTE MAXIMUM RATINGS

Power Dissipation $T_A = 25^\circ\text{C}$ 400 mW
 Operating Temperature Range -20°C to 85°C
 Storage Temperature Range -20°C to 85°C
 Average Forward Current/Segment or Decimal Pt. $T_A = 25^\circ\text{C}$ 25 mA
 Peak Forward Current/Segment or Decimal Pt. $T_A = 25^\circ\text{C}$ (Pulse Duration 500 μs)..... 150 mA
 Reverse Voltage/Segment or Decimal Pt. 6 V
 Max. Solder Temperature 1/16" Below Seating Plane ($t \leq 5$ sec.)..... 230°C

PIN CONNECTION



0.6" SEVEN SEGMENT NUMERIC DISPLAY

276-066

GENERAL DESCRIPTION

This device is a single digit numeric display. It is compatible with bipolar and MOS IC's. It provides fast switching—excellent for multiplexing—and the 0.6 inch character height provides a viewing distance up to 25 feet. This device is common cathode.

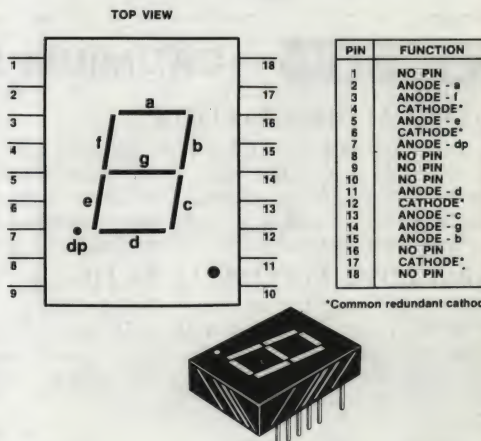
APPLICATIONS

- Digital clocks
- Panel meters
- TV channel indicators
- Elevator floor indicators
- Calculators

ABSOLUTE MAXIMUM RATINGS

Power Dissipation, $T_A = 25^\circ\text{C}$ 960 mW
 Power Derate Factor from 25°C..... -6.6 mW/°C
 Storage and Operating Temperature..... 0°C to 85°C
 DC Current/Segment or DP $T_A = 25^\circ\text{C}$ 30 mA
 Average Current/Segment or DP $T_A = 25^\circ\text{C}$ 25 mA
 Peak Current/Segment or DP $T_A = 25^\circ\text{C}$ 250 mA
 Reverse Voltage/Segment 6.0 V
 Solder Temperature, 1/16" below Seating Plane, $t \leq 5$ seconds..... 240°C

PIN CONNECTION



276-115

SELENIUM SOLAR CELL

GENERAL DESCRIPTION

The selenium solar cell is a device that can change the energy of the sun into electrical energy for use in your electronic projects. It can be used in place of the battery or it can be used as a light sensor. It produces .5 V at .6 ma in strong sunlight which is enough to power small radios and oscillator circuits. The unit is sensitive to the same range of light as the human eye.

FEATURES

- Dimensions.....1-1/2" x 1-1/8"
- Sensitive Area1.875 in.
- Lead Type.....Flexible wire
- Weight.....1.5 gms.

PHOTOELECTRIC CHARACTERISTICS

Max. Voltage Output5 V
 Max. Current Output6 ma
 Output at 100 Lux (3K load) 50 μ A
 Output at 500 Lux (3K load) 90 μ A
 Peak Spectral Response 5,500 Angstroms

CONNECTION



276-116

CADMIUM SULPHIDE PHOTOCELL

GENERAL DESCRIPTION

A cadmium sulphide photo cell is a light variable resistor which is most sensitive in the green to yellow portion of the light spectrum. With it you can use light to control many electronic devices. Max. resistance .5 meg., min. resistance 100 ohms, max. voltage 170 V, max. wattage .2 watts, rugged epoxy case.

APPLICATIONS

- Night light
- Light control
- Burglar alarm
- Relay

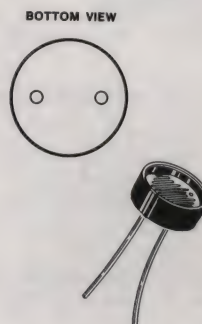
FEATURES

- GENERAL
 - Shape.....Round
 - Sensitive Area......07 sq. in.
 - Weight1.56 gms.
- PHOTOELECTRIC CHARACTERISTICS
 - Resistance at 1 Ftc (2870°K) 1.7k Ohms . 40%
 - Typical Resistance 100 Ftc (2870°K)100 Ohms
 - Resistance Dark Minimum (1 Minute)..... 0.5 Megohms

ABSOLUTE MAXIMUM RATINGS

Max. Applied Voltage (ac or dc).....170 V peak
 Max. Power dissipation at 25°C.....2 watts
 Power derating.....Linearly to 0 @ 75°C
 Operating Temp. range-40°C to 75°C

PIN CONNECTION



276-129

CADMIUM SULPHIDE PHOTOCELL

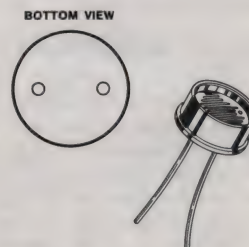
GENERAL DESCRIPTION

A cadmium sulphide (CdS) photocell is a light-dependent resistor which is responsive to visible light and is most sensitive in the green to yellow range of the light spectrum. This general purpose cell may be used as the transducer element in many light controlled electronic circuits. Typical light to dark resistance range is 20 ohms to 1 meg ohm.

ABSOLUTE MAXIMUM RATINGS

Maximum Power Dissipation 25°C.....0.2 watts
 Maximum Applied Voltage (AC or DC).....170 V Peak
 Operating temperature Range-25°C to 75°C
 Maximum Resistance (Dark).....1 meg
 Minimum Resistance (Light).....20 ohms
 Size 425 DIA x .130 Height

PIN CONNECTION



SILICON PHOTOTRANSISTOR

276-130

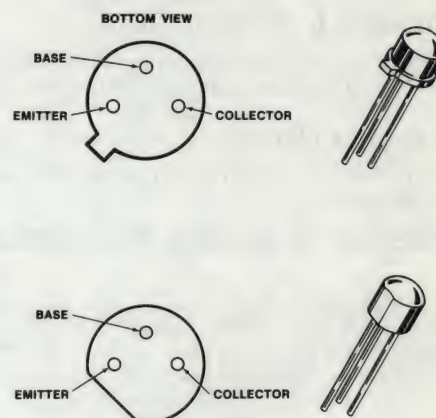
GENERAL DESCRIPTION

The 3 terminal phototransistor has exceptionally stable characteristics and high illumination sensitivity. The electrically connected base lead increases its applicability to various circuit designs. It features low leakage, low power requirements, TTL/DTL compatibility, a large range of sensitivities and minimal response time.

ABSOLUTE MAXIMUM RATINGS

Maximum Temperatures/Humidity	
Storage Temperature.....	-55°C to 100°C
Operating Junction Temperature	-55°C to 85°C
Relative Humidity at Temperature.....	98% at 65°C
Maximum Power Dissipation	
Total Dissipation at 25°C Case Temperature	200 mW
at 25°C Ambient Temperature.....	100 mW
Maximum Voltages	
V _{CBO} Collector to Base Voltage	50 Volts
V _{CEO} Collector to Emitter Sustaining Voltage.....	30 Volts
Maximum Current	
I _C Collector Current	25 mA

PIN CONNECTION



The base lead is for testing only, it is not used in normal applications.

INFRARED DET PHOTOTRANSISTOR TYPE TIL 63

276-140

GENERAL DESCRIPTION

The 276-140 is an infrared detector that is compatible with infrared emitters such as the Type TIL 32 (RS Cat. No. 276-141.)

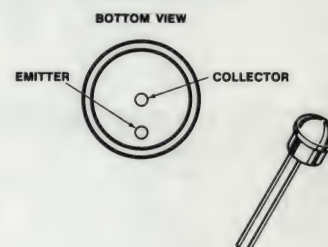
APPLICATIONS

- Character Recognition
- Tape and Card readers
- Velocity Indicators
- Encoders

ABSOLUTE MAXIMUM RATINGS

Collector-Emitter Voltage	50 V
Emitter-Collector Voltage	7 V
Continuous Device Dissipation at (or below) 25°C Free-Air	
Temperature.....	50 mW
Operating Free-Air Temperature Range	-40°C to 80°C
Storage Temperature Range	-40°C to 100°C
Lead Temperature 1/16 Inch from Case for 10 seconds.....	240°C

PIN CONNECTION



INFRARED EMITTER TYPE TIL 32

276-141

GENERAL DESCRIPTION

The 276-141, when forward biased, emits near infrared light, the output is compatible with silicon sensors such as the Type TIL 63 (RS Cat. No. 276-140). It features high power efficiency, high power output and high radiant intensity.

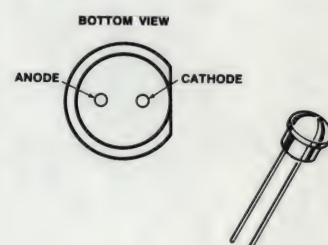
APPLICATIONS

- Character Recognition
- Tape and Card readers
- Velocity Indicators
- Encoders

ABSOLUTE MAXIMUM RATINGS

Reverse Voltage at 25°C Free-Air Temperature	2V
Continuous Forward Current at (or below) 25°C Free-Air	
Temperature.....	40 mA
Operating Free-Air Temperature Range	-40°C to 80°C
Storage Temperature Range	-40°C to 100°C
Lead Temperature 1/16 Inch from Case for 5 Seconds	240°C

PIN CONNECTION



276-1095
276-1096

1.6 AMP LIGHT ACTIVATED SILICON CONTROLLED RECTIFIER (LASCR)

GENERAL DESCRIPTION

The Light Activated Silicon Rectifier (LASCR) is sensitive to both visible and invisible light; light sensitivity up to 200 ft. candles.

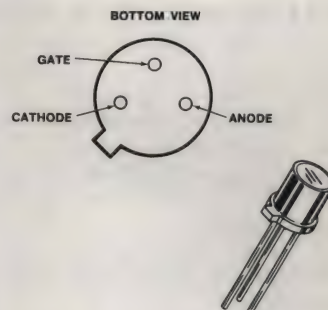
APPLICATIONS

- On time Switch • Optical switch • Counting Circuits • Delay Circuits
- Phase Control

ABSOLUTE MAXIMUM RATINGS

	<u>276-1095</u>	<u>276-1096</u>
Peak Inverse Voltage.....	200 V	25 V
Maximum End Current	1.6 amps	1.6 amps
Light Sensitivity	200 Ft. Candles	200 Ft. Candles
Gate Firing Current	30 μ A	30 μ A

PIN CONNECTION



276-1201
276-1202

CLOCK DISPLAY BOARD 4-.5" Digits with Colon

GENERAL DESCRIPTION

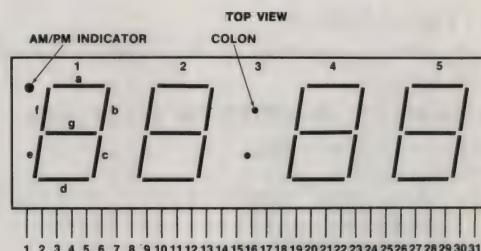
These devices 276-1201, 276-1202 are a 24 hour clock display with colon located between digits 2 and 3. This is a direct drive display consisting of 4 digits, for hours and minutes, separated by a colon. It also has AM/PM indicator in the upper left hand corner.

ABSOLUTE MAXIMUM RATINGS

ELECTRICAL DATA

Segment Light Intensity.....	100 - .250 mcd (min - typ)
Segment Forward Voltage	1.7 - 2.0 V (typ max)
Reverse Voltage.....	3.0 - 8.0 V (min - typ)
Intensity Matching	$\pm 33\%$ (min)
Current per segm	20 mA (max)
Peak wave length.....	660 nm (typical)

PIN CONNECTION



PIN FUNCTION

276-1201

Pin No	Electrical Connection				Pin No	Electrical Connection			
1	AM/PM Indicator Cathode				17	Cathode F Digit 4			
2	Cathode F Digit 1				18	E			
3	E				19	D			
4	D				20	C			
5	C				21	G			
6	G				22	B			↓
7	B				23	A		4	
8	A		1		24	F		5	
9	F		2		25	E			↑
10	E			↑	26	D			
11	D				27	C			
12	C				28	G			
13	G				29	B			↓
14	B			↓	30	Cathode A Digit 5			
15	Cathode A Digit 2				31	Common Anode			
16	Cathode Colon Digit 3								

276-1202

Pin No	Electrical Connection				Pin No	Electrical Connection			
1	AM/PM Indicator Anode				17	Anode F Digit 4			
2	Anode F Digit 1				18	E			
3	E				19	D			
4	D				20	C			
5	C				21	G			
6	G				22	B			↓
7	B				23	A		4	
8	A		1		24	F		5	
9	F		2		25	E			↑
10	E			↑	26	D			
11	D				27	C			
12	C				28	G			
13	G				29	B			↓
14	B			↓	30	Anode A Digit 5			
15	Anode A Digit 2				31	Common Cathode			
16	Anode Colon Digit 3								

LED DISPLAY DIGITAL ELECTRONIC
CLOCK MODULE

277-1001

GENERAL DESCRIPTION

Electronic Clock Module combines a monolithic MOS-LSI integrated clock circuit, 4-digit 0.5" LED display, power supply and other associated discrete components on a single printed circuit board to form a complete electronic clock movement. The user need add only a transformer and switches to construct a pretested digital clock for application in clock-radios, alarm or instrument panel clocks. Timekeeping may be from 50 or 60 Hz inputs and 12 and 24 hour display formats may be chosen. Direct (non-multiplexed) LED drive eliminates Rf interference. Time setting is made easy through use of "Fast" and "Slow" scanning controls.



SCHEMATIC DIAGRAM

FEATURES

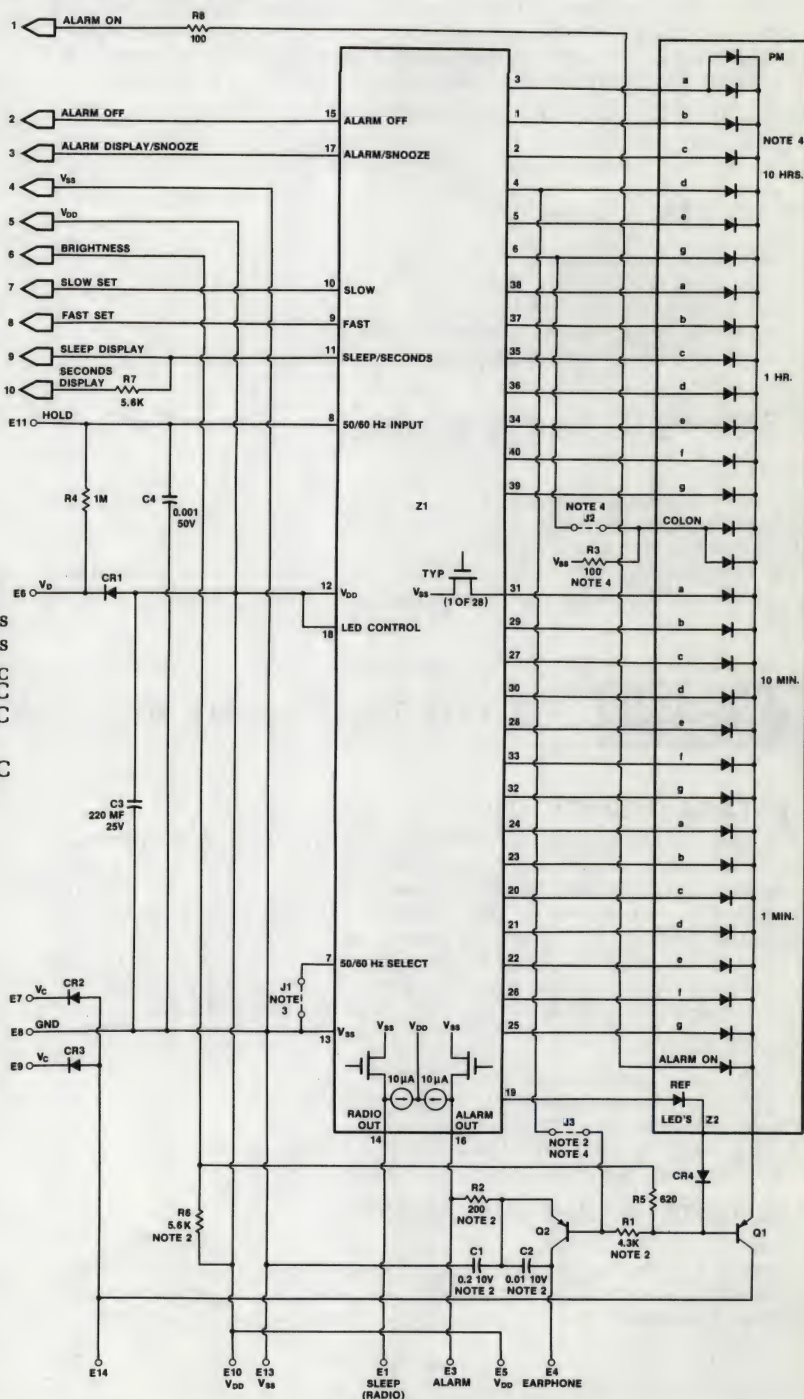
- Bright 4-digit 0.5" LED display
- Complete—add only transformer and switches
- Alarm clock and clock-radio versions
- 12 or 24 hour display format
- 50 or 60 Hz operation
- Power failure indication
- Brightness control capability
- "Sleep" and "snooze" timers
- Alarm "on" and PM indicators
- Direct drive—no RFI
- Fast and slow set controls
- Low cost, compact design

APPLICATIONS

- Clock-radio timers
- Alarm clocks
- Desk clocks
- TV-stereo timers
- Instrument panel clocks

ABSOLUTE MAXIMUM RATINGS

Voltage—Pins E6 to E821 Vrms
 Voltage—Pins E7, E9 to E8.....7.0 Vrms
 Voltage—Pins E1, E3 to E13.....+0.3 to -26V_{DC}
 Operating Temperature Range..... -25°C to 70°C
 Storage Temperature Range -65°C to 85°C
 Lead Temperature
 (Soldering, 10 seconds) 300°C



NOTE 1: Not required for alarm clock assembly part number 1001 E,F,G,H.

NOTE 2: Not required for clock radio assembly part number 1001 A,B,C,D.

NOTE 3: Connect for 50 Hz operation MA 1001 B,D,F,H.

NOTE 4: 12 hours—use "PM," "b," "c," "d," "e," "g" LED only

—Z1: 1001-A,B,E,F.

24 hours—use "a," "b," "c," "d," "e," "g" LED only

—Do not use J2 or J3

—Z1: 1001 C,D,G,H

RS 74C00
276-2301
RS 74C02
276-2302
RS 74C04
276-2303

QUAD TWO-INPUT NAND GATE

QUAD TWO-INPUT NOR GATE

HEX INVERTER

GENERAL DESCRIPTION

These logic gates employ complementary MOS (CMOS) to achieve wide power supply operating range, low power consumption, high noise immunity and symmetric controlled rise and fall times. With features such as this the 74C logic family is close to ideal for use in digital systems. Function and pin out compatibility with series 74 devices minimizes design time for those designers already familiar with the standard 74 logic family.

All inputs are protected from damage due to static discharge by diode clamps to V_{CC} and GND.

FEATURES

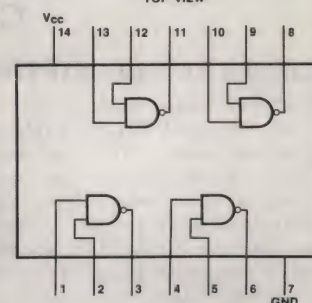
- Wide supply voltage range 3.0V to 15V
- Guaranteed noise margin 1.0V.
- High noise immunity 0.45 V_{CC} typ.
- Low power consumption 10 nW/package typ.
- Low power TTL compatibility fan out of 2 driving 74L

ABSOLUTE MAXIMUM RATINGS

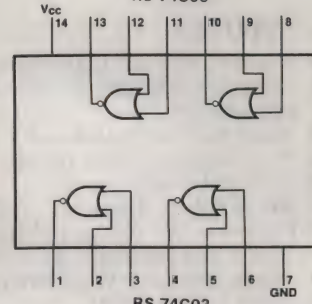
Voltage at Any Pin -0.3V to $V_{CC} + 0.3V$
Operating Temperature Range -40°C to +85°C
Storage Temperature Range -65°C to +150°C
Maximum V_{CC} Voltage 16V
Package Dissipation 500 mW
Lead Temperature (Soldering, 10 seconds) 300°C

PIN CONNECTION

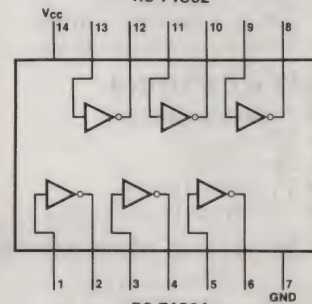
TOP VIEW



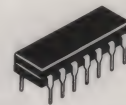
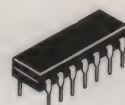
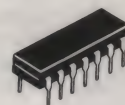
RS 74C00



RS 74C02



RS 74C04



RS 74C08
276-2305

QUAD TWO-INPUT AND GATE

GENERAL DESCRIPTION

Employing complementary MOS (CMOS) transistors to achieve wide power supply operating range, low power consumption and high noise margin these gates provide basic functions used in the implementation of digital integrated circuit systems. The N and P-channel enhancement mode transistors provide a symmetrical circuit with output swing essentially equal to the supply voltage. No dc power other than that caused by leakage current is consumed during static condition. All inputs are protected from damage due to static discharge by diode clamps to V_{CC} and GND.

FEATURES

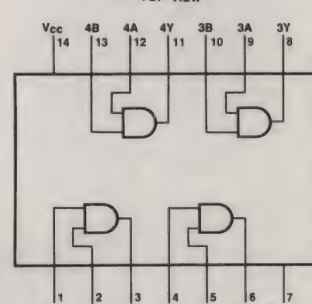
- Wide supply voltage range 3.0V to 15V
- Guaranteed noise margin 1.0V
- High noise immunity 0.45 V_{CC} typ
- Low power TTL compatibility fan out of 2 driving 74L
- Low power consumption 10 nW/package typ

ABSOLUTE MAXIMUM RATINGS

Voltage at Any Pin -0.3 to $V_{CC} + 0.3V$
Operating Temperature Range -40°C to +85°C
Storage Temperature Range -65°C to +150°C
Package Dissipation 500 mW
Operating V_{CC} Range 3.0V to 15V
Absolute Maximum V_{CC} 16V
Lead Temperature (Soldering, 10 seconds) 300°C

PIN CONNECTION

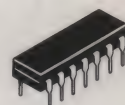
TOP VIEW



TRUTH TABLE

INPUTS		OUTPUT
A	B	Y
L	L	L
L	H	L
H	L	L
H	H	H

H = High Level
L = Low Level



DUAL D FLIP-FLOP

RS 74C74
276-2310

GENERAL DESCRIPTION

The 74C74 dual D flip flop is a monolithic complementary MOS (CMOS) integrated circuit constructed with N- and P-channel enhancement transistors. Each flip flop has independent data, preset, clear and clock inputs and Q and \bar{Q} outputs. The logic level present at the data input is transferred to the output during the positive going transition of the clock pulse. Preset or clear is independent of the clock and accomplished by a low level at the preset or clear input.

APPLICATIONS

- Automotive
- Data terminals
- Instrumentation
- Medical electronics
- Alarm system
- Industrial electronics
- Remote metering
- Computers

FEATURES

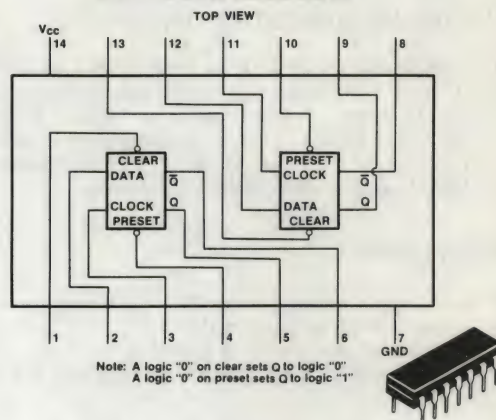
- Supply voltage range 3V to 15V
- Tenth power TTL compatible drive 2LPT²L loads
- High noise immunity 0.45 V_{CC} (typ)
- Low power 50 nW (typ)
- Medium speed operation 10 MHz (typ) with 10V supply

ABSOLUTE MAXIMUM RATINGS

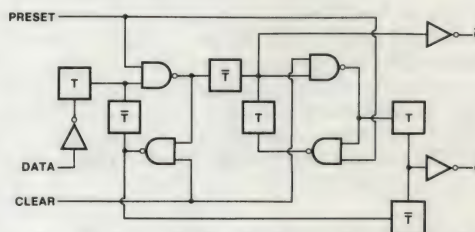
Voltage at any pin (Note 1)	-0.3 to V _{CC} +0.3V
Operating temperature	-40°C to +85°C
Storage temperature	-65°C to 150°C
Maximum V _{CC} Voltage	16V
Package dissipation	500 mW
Lead temperature (Soldering, 10 sec)	300°C
Operating V _{CC} range	+3V to +15V

Note 1: These devices should not be connected under power on conditions.

PIN CONNECTION



LOGIC DIAGRAM



DUAL J-K FLIP-FLOPS WITH CLEAR AND PRESET

RS 74C76
276-2312

GENERAL DESCRIPTION

These dual J-K flip-flops are monolithic complementary MOS (CMOS) integrated circuits constructed with N- and P-channel enhancement transistors. Each flip-flop has independent J, K, clock and clear inputs and Q and \bar{Q} outputs. The 74C76 flip flops also include preset inputs and are supplied in 16 pin packages. These flip flops are edge sensitive to the clock input and change state on the negative going transition of the clock pulses. Clear or preset is independent of the clock and is accomplished by a low level on the respective input.

APPLICATIONS

- Automotive
- Data terminals
- Instrumentation
- Medical electronics
- Alarm systems
- Industrial electronics
- Remote metering
- Computers

FEATURES

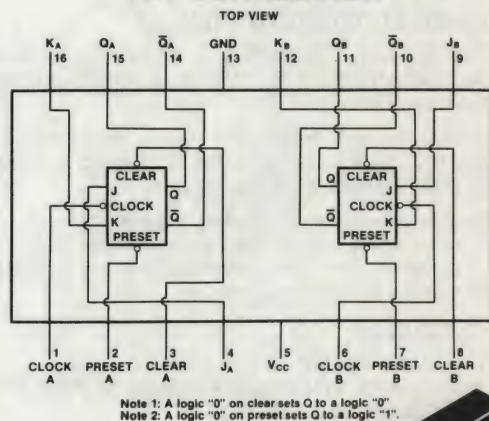
- Supply voltage range 3V to 15V
- Tenth power TTL compatible drive 2 LPTTL loads
- High noise immunity 0.45 V_{CC} (typ)
- Low power 50 nW (typ)
- Medium speed operation 10 MHz (typ) with 10V supply

ABSOLUTE MAXIMUM RATINGS

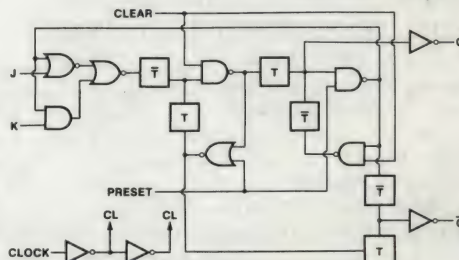
Voltage at any pin (Note 1)	-0.3V to V _{CC} +0.3V
Operating Temperature	-40°C to +85°C
Storage Temperature	-65°C to 150°C
Maximum V _{CC} Voltage	16V
Package Dissipation	500 mW
Lead Temperature (Soldering, 10 sec)	300°C
Operating V _{CC} Range	+3V to 15V

Note 1: This device should not be connected to circuits with the power on because high transient voltages may cause permanent damage.

PIN CONNECTION



LOGIC DIAGRAM



RS 74C90
276-2315

FOUR-BIT DECADE COUNTER

GENERAL DESCRIPTION

The 74C90 decade counter is constructed with N and P-channel enhancement mode transistors. The 4-bit decade counter can be reset to zero or preset to nine by applying appropriate logic level on the R_{01} , R_{02} , R_{91} and R_{92} inputs, also a separate flip-flop on the A-bit enables the user to operate it as a divide-by-2, 5 or 10 frequency counter. All inputs are protected against static discharge damage.

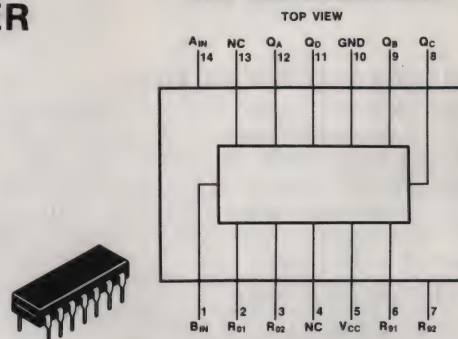
FEATURES

- Wide supply voltage range 3V to 15V
- Guaranteed noise margin 1V
- High noise immunity $0.45 V_{CC}$ (typ)
- Low power TTL compatibility fan out of 2 driving 74L

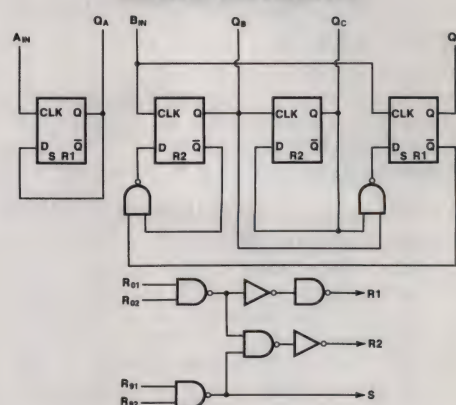
ABSOLUTE MAXIMUM RATINGS

Voltage at Any Pin	-0.3V to $V_{CC} + 0.3V$
Operating Temperature Range	-40°C to +85°C
Package Dissipation	500 mW
Operating V_{CC} Range	3V to 15V
Absolute Maximum V_{CC}	16V
Storage Temperature Range	-65°C to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

PIN CONNECTION



LOGIC DIAGRAM



RS 74C192
276-2321
RS 74C193
276-2322

**SYNCHRONOUS FOUR-BIT UP/DOWN DECADE
SYNCHRONOUS FOUR-BIT UP/DOWN BINARY**

GENERAL DESCRIPTION

These up/down counters are monolithic complementary MOS (CMOS) integrated circuits. The 74C192 is a BCD counter. While the 74C193 is a binary counter.

Counting up and counting down is performed by two count inputs, one being held high while the other is clocked. The outputs change on the positive going transition of this clock.

These counters feature preset inputs that are set when load is a logical "0" and a clear which forces all outputs to "0" when it is at logical "1". The counters also have carry and borrow outputs so that they can be cascaded using no external circuitry.

FEATURES

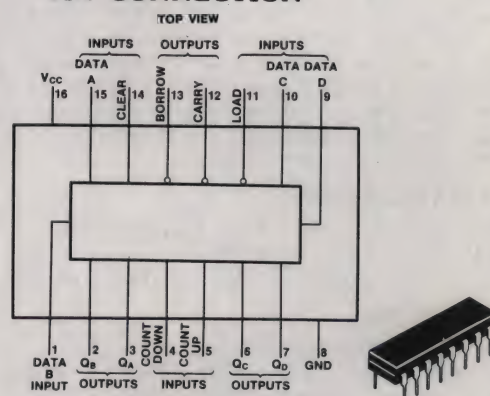
- High noise margin 1V guaranteed
- Tenth power TTL compatible drive 2 LPTTL loads
- Wide supply range 3V to 15V
- Carry and borrow outputs for N-bit cascading
- Asynchronous clear
- High noise immunity $0.45 V_{CC}$ typ

ABSOLUTE MAXIMUM RATINGS

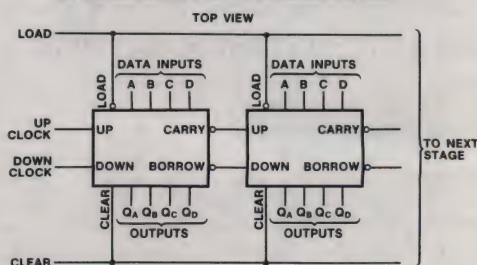
Voltage at Any Pin (Note 1)	-0.3V to $V_{CC} + 0.3V$
Operating Temperature Range	-40°C to +85°C
Storage Temperature Range	-65°C to +150°C
Maximum V_{CC} Voltage	16V
Package Dissipation	500 mW
Operating V_{CC} Range	+3V to +15V
Lead Temperature (Soldering, 10 sec)	300°C

Note 1: This device should not be connected to circuits with the power on because high transient voltage may cause permanent damage.

PIN CONNECTION



CASCADING PACKAGES



QUAD TWO-INPUT NOR GATE

RS 4001
276-2401

GENERAL DESCRIPTION

The 4001 quad 2-Input NOR gate is constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. These complementary MOS logic gates find primary use where low power dissipation and/or high noise immunity is desired.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

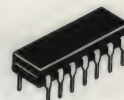
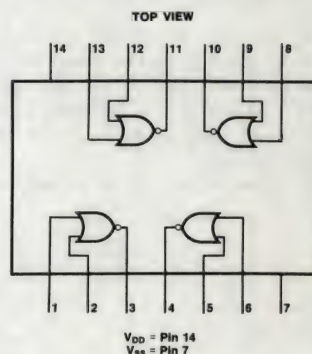
FEATURES

- Quiescent Current = 0.5 nA typ/pkg@ 5 Vdc
- Noise Immunity = 45% of V_{DD} typical
- Diode Protection on All Inputs
- Supply Voltage Range = 3.0 Vdc to 18 Vdc
- Single Supply Operation—Positive or Negative
- High Fanout > 50
- Input Impedance = 10^{12} ohms typical
- Logic Swing Independent of Fanout

ABSOLUTE MAXIMUM RATINGS
(Voltages referenced to V_{SS})

DC Supply Voltage.....	-0.5 to +18 Vdc
Input Voltage, All Inputs.....	-0.5 to V_{DD} +0.5 Vdc
DC Current Drain per Pin.....	10 mAdc
Operating Temperature Range.....	-40 to 85°C
Storage Temperature Range.....	-65 to +150°C

PIN CONNECTION



QUAD TWO-INPUT NAND GATE

RS 4011
276-2411

GENERAL DESCRIPTION

The 4011 is constructed with P and N channel enhancement mode devices in a single monolithic structure (Complementary MOS). Their primary use is where low power dissipation and/or high noise immunity is desired.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

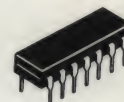
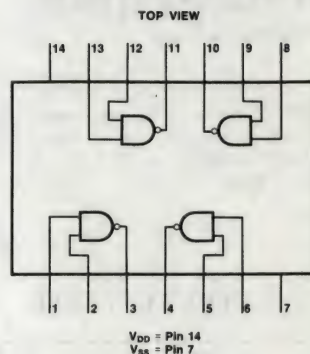
FEATURES

- Quiescent Current = 0.5 nA typ/pkg@ 5 Vdc
- Noise Immunity = 45% of V_{DD} typ
- Supply Voltage Range = 3.0 Vdc to 18 Vdc
- Double Diode Protection on All Inputs

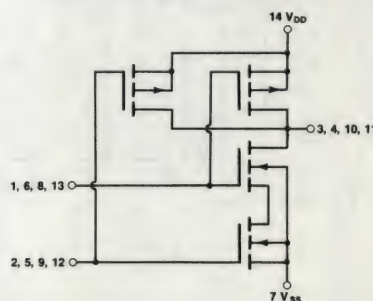
ABSOLUTE MAXIMUM RATINGS
(Voltages referenced to V_{SS})

DC Supply.....	-0.5 to +18 Vdc
Input Voltage, All Inputs.....	-0.5 to V_{DD} +0.5 Vdc
DC Current Drain per Pin.....	10 mAdc
Operating Temperature Range.....	-40 to +85°C
Storage Temperature Range.....	-65 to +150°C

PIN CONNECTION



CIRCUIT SCHEMATIC



RS 4013
276-2413

DUAL TYPE D FLIP-FLOP

GENERAL DESCRIPTION

The 4013 dual type D flip-flop is constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. Each flip-flop has independent Data, (D), Direct Set, (S), Direct Reset, (R), and Clock (C) inputs and complementary outputs (Q and \bar{Q}). These devices may be used as shift register elements or as type T flip-flops for counter and toggle applications.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

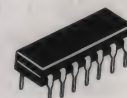
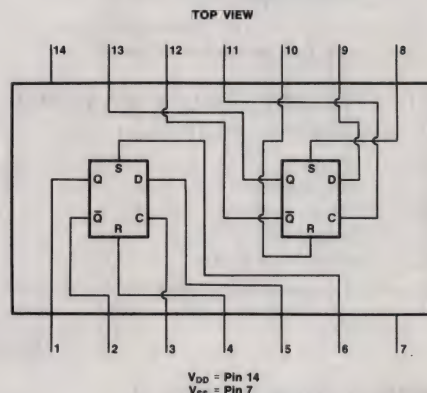
FEATURES

- Static Operation
- Quiescent Current = 2.0 nA/package typical @ 5 Vdc
- Noise Immunity = 45% of V_{DD} typical
- Diode Protection on All Inputs
- Supply Voltage Range = 3.0 Vdc to 18 Vdc
- Single Supply Operation
- Toggle Rate = 4 MHz typical @ 5 Vdc
- Logic Edge-Clocked Flip-Flop Design—Logic state is retained indefinitely with clock level either high or low; information is transferred to the output only on the positive-going edge of the clock pulse
- Capable of Driving Two Low-power TTL Loads, One Low-power Schottky TTL Load or Two HTL Loads Over the Rated Temperature Range

ABSOLUTE MAXIMUM RATINGS (Voltages referenced to V_{SS})

DC Supply Voltage	-0.5 to +18 Vdc
Input Voltage, All Inputs.....	-0.5 to V_{DD} +0.5 Vdc
DC Current Drain per Pin.....	10 mAdc
Operating Temperature Range	-40 to +85°C
Storage Temperature Range	-65 to +150°C

PIN CONNECTION



TRUTH TABLE

Clock†	Inputs			Outputs	
	Data	Reset	Set	Q	\bar{Q}
	0	0	0	0	1
	1	0	0	1	0
	x	0	0	No Change	
x	x	1	0	0	1
x	x	0	1	1	0
x	x	1	1	1	1

x= Don't Care

† = Level Change

DECADE COUNTER/DIVIDER

RS 4017
276-2417

GENERAL DESCRIPTION

The 4017 is a five-stage Johnson decade counter with built-in code converter. High-speed operation and spike-free outputs are obtained by use of a Johnson decade counter design. The ten decoded outputs are normally low, and go high only at their appropriate decimal time period. The output changes occur on the positive-going edge of the clock pulse. This part can be used in frequency division applications as well as decade counter or decimal decode display applications.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

FEATURES

- Fully Static Operation
- DC Clock Input Circuit Allows Slow Rise Times
- Carry Out Output for Cascading
- 12 MHz (typical) Operation @ $V_{DD} = 10$ Vdc
- Quiescent Current = 5.0 nA/package Typical @ 5 Vdc
- Supply Voltage Range = 3.0 Vdc to 18 Vdc
- Capable of Driving Two Low-power TTL Loads, One Low-power Schottky TTL Load or Two HTL Loads Over the Rated Temperature Range

ABSOLUTE MAXIMUM RATINGS
(Voltages referenced to V_{SS})

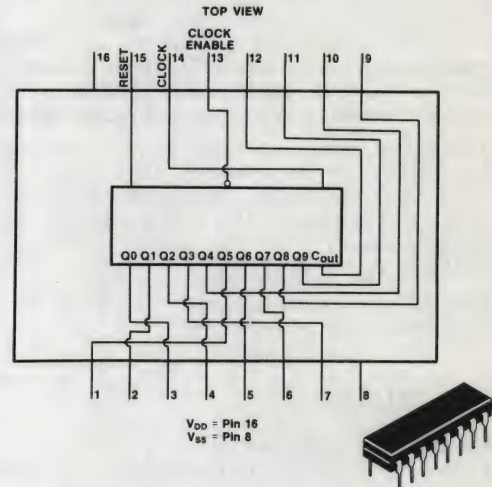
DC Supply Voltage	-0.5 to +18 Vdc
Input Voltage, All Inputs	-0.5 to $V_{DD} + 0.5$ Vdc
DC Current Drain per Pin	10 mAdc
Operating Temperature Range	-40 to +85°C
Storage Temperature Range	-65 to +150°C

TRUTH TABLE
(Positive Logic)

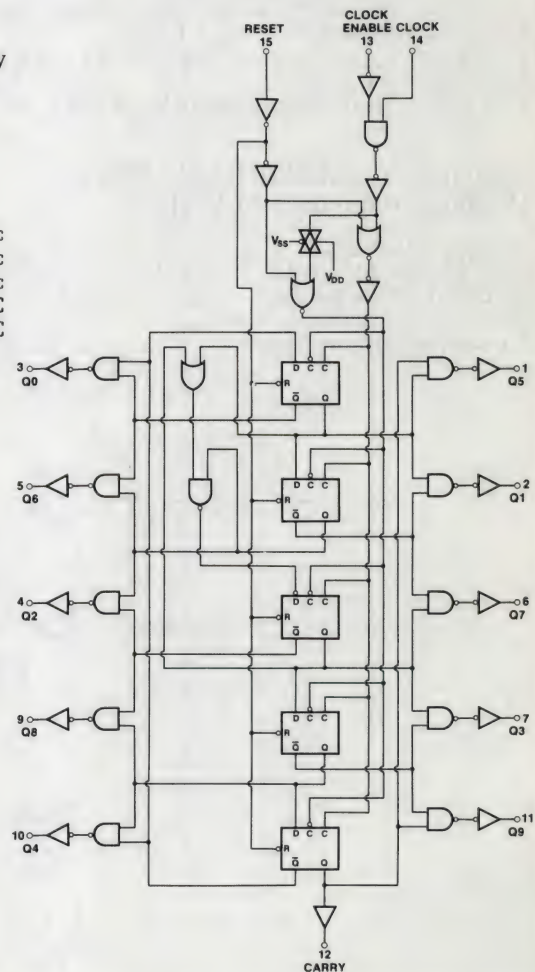
Clock	Clock Enable	Reset	Decode Output = n
0	x	0	n
x	1	0	n
x	x	1	Q0
—	0	0	n + 1
—	x	0	n
x	—	0	n
1	—	0	n + 1

x = Don't Care If $n < 5$ Carry = "1",
Otherwise = "0"

PIN CONNECTION



LOGIC DIAGRAM



RS 4020
276-2420

14-BIT BINARY COUNTER

GENERAL DESCRIPTION

The 4020 14-stage binary counter is constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. This part is designed with an input wave shaping circuit and 14 stages of ripple-carry binary counter. The device advances the count on the negative-going edge of the clock pulse. Applications include time delay circuits, counter controls, and frequency-dividing circuits.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

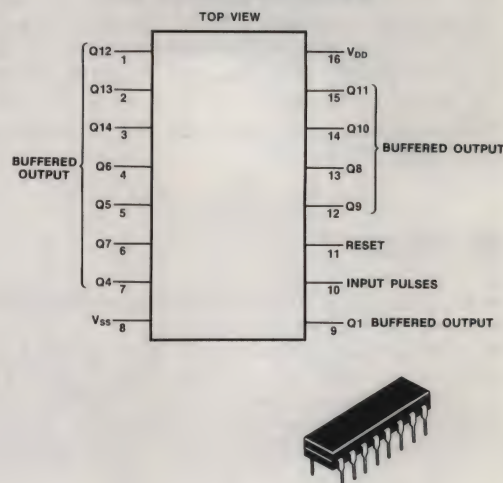
FEATURES

- Fully Static Operation
- Quiescent Current = 5.0 nA/package typical @ 5 Vdc
- Noise Immunity = 45% of V_{DD} typical
- Diode Protection on All Inputs
- Supply Voltage Range = 3.0 Vdc to 18 Vdc
- Capable of Driving Two Low-power TTL Loads, One Low-power Schottky TTL Load or Two HTL Loads Over the Rated Temperature Range
- Low Input Capacitance = 5.0pF typical
- Buffered Outputs Available from stages 1 and 4 thru 14
- Common Reset Line
- 13 MHz Typical Counting Rate @ $V_{DD} = 15V$

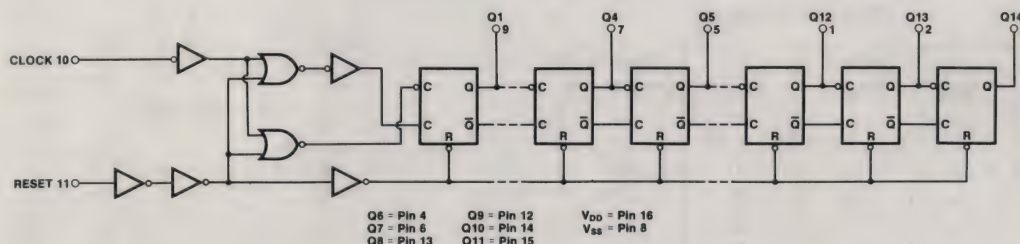
ABSOLUTE MAXIMUM RATINGS (Voltages referenced to V_{SS})

DC Supply Voltage -0.5 to +18 Vdc
 Input Voltage, All Inputs -0.5 to $V_{DD} + 0.5$ Vdc
 DC Current Drain per Pin 10 mA dc
 Operating Temperature Range -40 to +85°C
 Storage Temperature Range -65 to +150°C

PIN CONNECTIONS



LOGIC DIAGRAM



TRUTH TABLE

Clock	Reset	Output State
	0	No Change
	0	Advance to next state
x	1	All Outputs are low

x = Don't Care

DUAL J-K FLIP-FLOP

RS 4027
276-2427

GENERAL DESCRIPTION

The 4027 dual J-K flip-flop has independent J, K, Clock (C), Set (S) and Reset (R) inputs for each flip-flop. These devices may be used in control, register, or toggle functions.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

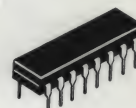
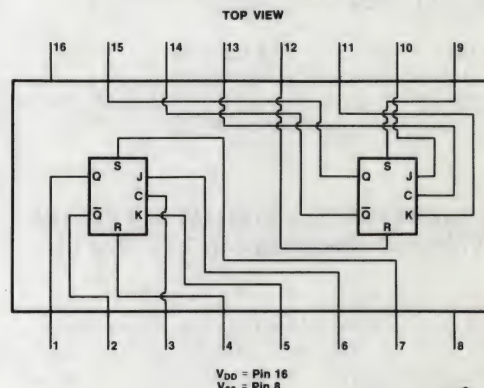
FEATURES

- Quiescent Current = 2.0 nA/package typical @ 5 Vdc
- Noise Immunity = 45% of V_{DD} typical
- Diode Protection on All Inputs
- Supply Voltage Range = 3.0 Vdc to 18 Vdc
- Single Supply Operation—Positive or Negative
- Toggle Rate = 3.0 MHz typical @ 5 Vdc
- Logic Swing Independent of Fanout
- Logic Edge-Clocked Flip-Flop Design—Logic state is retained indefinitely with clock level either high or low; information is transferred to the output only on the positive-going edge of the clock pulse
- Capable of Driving Two Low-power TTL Loads, One Low-power Schottky TTL Load or Two HTL Loads Over the Rated Temperature Range

ABSOLUTE MAXIMUM RATINGS
(Voltages referenced to V_{SS})

DC Supply Voltage	-0.5 to +18 Vdc
Input Voltage, All Inputs	-0.5 to V_{DD} + 0.5 Vdc
DC Current Drain per Pin	10 mAdc
Operating Temperature Range	-40 to +85°C
Storage Temperature Range	-65 to +150°C

PIN CONNECTION



TRUTH TABLE

Inputs						Outputs*	
C†	J	K	S	R	Q_n^\ddagger	Q_{n+1}	\bar{Q}_{n+1}
	1	x	0	0	0	1	0
	x	0	0	0	1	1	0
	0	x	0	0	0	0	1
	x	1	0	0	1	0	1
	x	x	0	0	x	No Change	
x	x	x	1	0	x	1	0
x	x	x	0	1	x	0	1
x	x	x	1	1	x	1	1

x = Don't Care

† = Level Change

‡ = Present State

* = Next State

RS 4049
276-2449
RS 4050
276-2450

INVERTING HEX BUFFER **NONINVERTING HEX BUFFER**

GENERAL DESCRIPTION

The 4049 hex inverter/buffer and 4050 noninverting hex buffer are constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. These complementary MOS devices find primary use where low power dissipation and/or high noise immunity is desired. These devices provide logic-level conversion using only one supply voltage, V_{CC} . The input-signal high level (V_{IH}) can exceed the V_{CC} supply voltage for logic-level conversions. Two TTL/DTL Loads can be driven when the devices are used as CMOS-to-TTL/DTL converters ($V_{CC} = 5.0\text{ V}$, $V_{OL} \leq 0.4\text{ V}$, $I_{OL} \geq 3.2\text{ mA}$). Note that pin 16 is not connected internally on these devices; consequently connections to this terminal will not affect circuit operation.

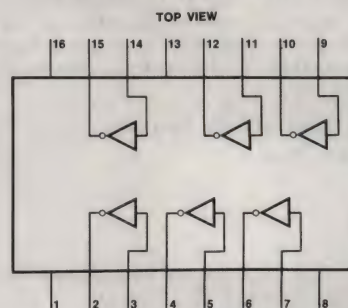
FEATURES

- High Source and Sink Currents
- High-to-Low Level Converter
- Quiescent Current = 2.0 nA/package typical @ 5 Vdc
- Supply Voltage Range = 3.0 Vdc to 18 Vdc

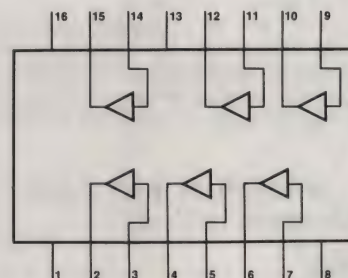
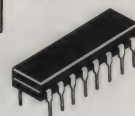
ABSOLUTE MAXIMUM RATINGS (Voltages referenced to V_{SS} , Pin 8)

DC Supply Voltage	-0.5 to +18 Vdc
Input Voltage, All Inputs	-0.5 to $V_{DD} + 0.5\text{ Vdc}$
DC Current Drain per Input Pin	10 mAdc
DC Current Drain per Output Pin	45 mAdc
Operating Temperature Range	-40 to +85°C
Storage Temperature Range	-65 to +150°C

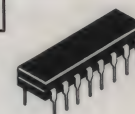
LOGIC DIAGRAMS



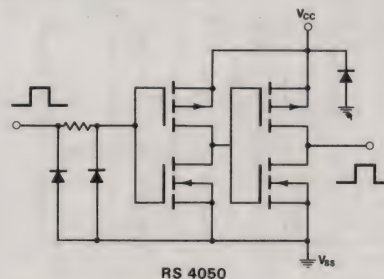
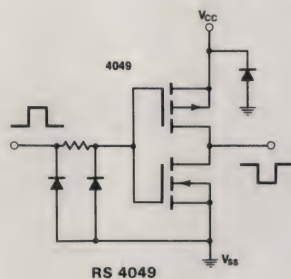
NC = Pin 13, 16
 V_{SS} = Pin 8
 V_{CC} = Pin 1
RS 4049



NC = Pin 13, 16
 V_{SS} = Pin 8
 V_{CC} = Pin 1
RS 4050



CIRCUIT SCHEMATIC (1/6 OF CIRCUIT SHOWN)



BCD-TO-SEVEN SEGMENT LATCH/DECODER/DRIVER

RS 4511
276-2447

GENERAL DESCRIPTION

The 4511 BCD-to-seven segment latch/decoder/driver is constructed with complementary MOS (CMOS) enhancement mode devices and NPN bipolar output drivers in a single monolithic structure. The circuit provides the functions of a 4-bit storage latch, an 8421 BCD-to-seven segment decoder, and an output drive capability. Lamp test (\overline{LT}), blanking (\overline{BI}), and latch enable (LE) inputs are used to test the display, and to store a BCD code, respectively. It can be used with seven-segment light emitting diodes (LED), incandescent, fluorescent, gas discharge, or liquid crystal readouts either directly or indirectly.

Applications include instrument (e.g., counter, DVM; etc.) display driver, computer/calculator display driver, cockpit display driver, and various clock, watch, and timer uses.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. A destructive high current mode may occur if V_{in} and V_{out} is not constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$.

Due to the sourcing capability of this circuit, damage can occur to the device if V_{DD} is applied, and the outputs are shorted to V_{SS} and are at a logical 1 (See Maximum Ratings).

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

FEATURES

- Quiescent Current = 5.0 nA/package typical @ 5 Vdc
- Low Logic Circuit Power Dissipation
- High-Current Sourcing Outputs (Up to 25 mA)
- Latch Storage of Code
- Blanking Input
- Lamp Test Provision
- Readout Blanking on all Illegal Input Combinations
- Lamp Intensity Modulation Capability
- Time Share (Multiplexing) Facility
- Supply Voltage Range = 3.0 Vdc to 18 Vdc
- Capable of Driving Two Low-power TTL Loads, One Low-power Schottky TTL Load or Two HTL Loads Over the Rated Temperature Range

ABSOLUTE MAXIMUM RATINGS (Voltages referenced to V_{SS})

DC Supply Voltage	-0.5 to +18 Vdc
Input Voltage, All Inputs	-0.5 to $V_{DD} + 0.5$ Vdc
DC Current Drain per Input Pin	10 mA dc
Operating Temperature Range	-40 to +85°C
Storage Temperature Range	-65 to +150
Maximum Continuous Output Drive Current (Source) per Output	25 mA
Maximum Continuous Output Power (Source) per Output ‡	50 mW
‡ $P_{OHmax} = I_{OH} (V_{DD} - V_{OH})$.	

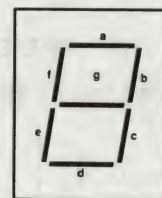
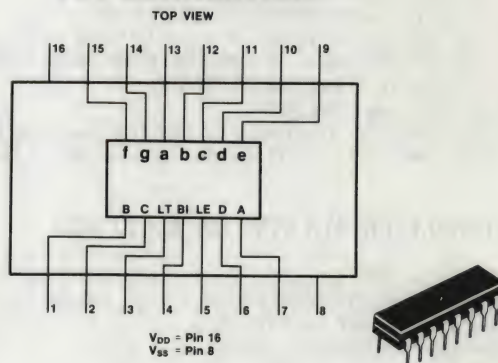
TRUTH TABLE

Inputs							Outputs							
LE	\overline{BI}	\overline{LT}	D	C	B	A	a	b	c	d	e	f	g	Display
x	x	0	x	x	x	x	1	1	1	1	1	1	1	8
x	0	1	x	x	x	x	0	0	0	0	0	0	0	Blank
0	1	1	0	0	0	0	1	1	1	1	1	1	0	0
0	1	1	0	0	0	1	0	1	1	0	0	0	0	1
0	1	1	0	0	1	0	1	1	0	1	1	0	1	2
0	1	1	0	0	1	1	1	1	1	1	0	0	1	3
0	1	1	0	1	0	0	0	1	1	0	0	1	1	4
0	1	1	0	1	0	1	1	0	1	1	0	1	1	5
0	1	1	0	1	1	0	0	0	1	1	1	1	1	6
0	1	1	0	1	1	1	1	1	1	0	0	0	0	7
0	1	1	1	0	0	0	1	1	1	1	1	1	1	8
0	1	1	1	0	0	1	1	1	1	0	0	1	1	9
0	1	1	1	0	1	0	0	0	0	0	0	0	0	Blank
0	1	1	1	0	1	1	0	0	0	0	0	0	0	Blank
0	1	1	1	1	0	0	0	0	0	0	0	0	0	Blank
0	1	1	1	1	0	1	0	0	0	0	0	0	0	Blank
0	1	1	1	1	1	0	0	0	0	0	0	0	0	Blank
0	1	1	1	1	1	1	0	0	0	0	0	0	0	Blank
1	1	1	x	x	x	x								

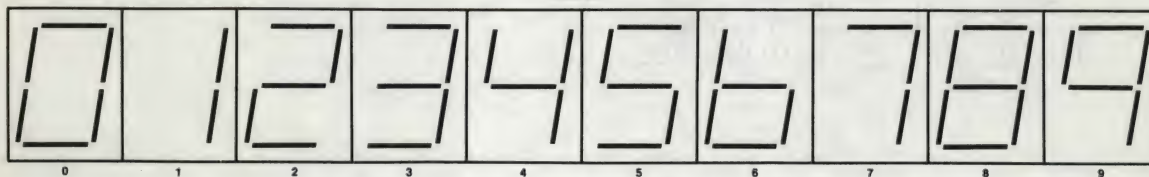
x = Don't Care

*Depends upon the BCD code previously applied when LE = 0

PIN CONNECTION



DISPLAY



RS 4518
276-2490

DUAL BCD UP COUNTER

GENERAL DESCRIPTION

The 4518 dual BCD counter is constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. It consists of two identical, independent, internally synchronous 4-stage counters. The counter stages are type D flip-flops, with interchangeable Clock and Enable lines for incrementing on either the positive-going or negative-going transition as required when cascading multiple stages. Each counter can be cleared by applying a high level on the Reset line. In addition, the 4518 will count out of all undefined states within two clock periods. These complementary MOS up counters find primary use in multi-stage synchronous or ripple counting applications requiring low power dissipation and/or high noise immunity.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

FEATURES

- Quiescent Current = 5.0 nA/package typical @ 5 Vdc
- Noise Immunity = 45% of V_{DD} typical
- Diode Protection on All Inputs
- Supply Voltage Range = 3.0 Vdc to 18 Vdc
- Low Input Capacitance = 5.0 pF typical
- Internally Synchronous for High Internal and External Speeds
- Logic Edge-Clocked Design—Incremented on Positive Transition of Clock or Negative Transition on Enable
- 6.0 MHz Counting Rate
- Capable of Driving Two Low-power TTL Loads, One Low-power Schottky TTL Load or Two HTL Loads Over the Rated Temperature Range

ABSOLUTE MAXIMUM RATINGS

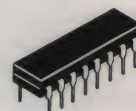
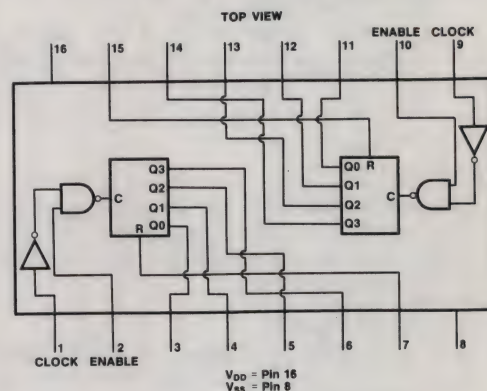
DC Supply Voltage -0.5 to +18 Vdc
 Input Voltage, All Inputs -0.5 to $V_{DD} + 0.5$ Vdc
 DC Current Drain per Pin 10 mAdc
 Operating Temperature Range -40 to +85°C
 Storage Temperature Range -65 to +150°C

TRUTH TABLE

Clock	Enable	Reset	Action
	1	0	Increment Counter
0		0	Increment Counter
	x	0	No Change
x		0	No Change
	0	0	No Change
1		0	No Change
x	x	1	Q1 thru Q4=0

x = Don't Care

PIN CONNECTION



DUAL LOW NOISE PREAMPLIFIER

RS 239
276-1729

GENERAL DESCRIPTION

This is a dual low-noise preamplifier consisting of two identically matched 68dB gain amplifiers fed from an internal zener regulated power supply. Operation requires only a single external power supply and a minimum number of external frequency shaping components.

FEATURES

- Low audio noise
- Wide power supply range
- Built-in power supply filter
- Low distortion
- High channel separation

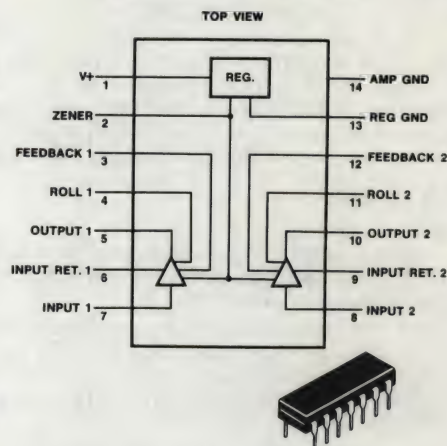
APPLICATIONS

- Stereo tape player/recorder
- Stereo radio receiver
- Movie projector
- Phonograph
- TV remote control receiver
- Microphone amplifier

ABSOLUTE MAXIMUM RATINGS

Supply Voltage.....	16 V
Temperature Storage.....	-55°C to plus 150°C
Operating.....	-30°C to plus 85°C

PIN CONNECTION



QUAD OP AMP

RS 324
276-1711

GENERAL DESCRIPTION

The 324 series consists of four independent, high gain, internally frequency compensated operational amplifiers which were designed specifically to operate from a single power supply over a wide range of voltages. Operation from split power supplies is also possible and the low power supply current drain is independent of the magnitude of the power supply voltage.

Application areas include transducer amplifiers, dc gain blocks and all the conventional op amp circuits which now can be more easily implemented in single power supply systems. For example, the 324 series can be directly operated off of the standard +5 V_{DC} power supply voltage which is used in digital systems and will easily provide the required interface electronics without requiring the additional ±15 V_{DC} power supplies.

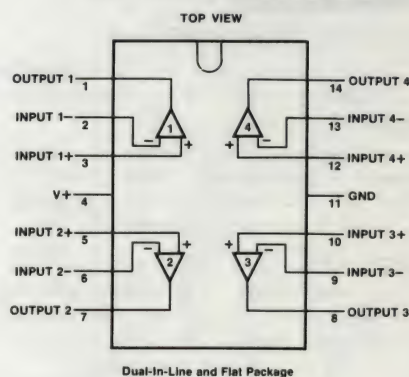
FEATURES

- Internally frequency compensated for unity gain
- Large dc voltage gain 100 dB
- Wide bandwidth (unity gain) 1 MHz (temperature compensated)
- Wide power supply range:
Single supply 3 V_{DC} to 30 V_{DC}
or dual supplies ±1.5 V_{DC} to ±15 V_{DC}
- Very low supply current drain (800μA)—essentially independent of supply voltage (1 mW/op amp at +5 V_{DC})
- Low input biasing current 45 nA_{DC} (temperature compensated)
- Low input offset voltage 2 mV_{DC} and offset current 5 nA_{DC}
- Input common-mode voltage range includes ground
- Differential input voltage range equal to the power supply voltage
- Large output voltage swing 0 V_{DC} to V⁺—1.5 V_{DC}

ABSOLUTE MAXIMUM RATINGS

Supply Voltage, V ⁺	32 V _{DC} or ±16 V _{DC}
Differential Input Voltage.....	32 V _{DC}
Input Voltage.....	-0.3 V _{DC} to +32 V _{DC}
Power Dissipation	
Molded DIP.....	570 mW
Cavity DIP.....	900 mW
Output Short-Circuit to GND (One Amplifier).....	Continuous
V ⁺ ≤ 15 V _{DC} and T _A = 25°C	
Input Current (V _{IN} < -0.3 V _{OL}).....	50 mA
Operating Temperature Range.....	0°C to +70°C
Storage Temperature Range.....	-65°C to +150°C
Lead Temperature (Soldering, 10 seconds).....	300°C

PIN CONNECTION



Dual-In-Line and Flat Package

RS 339
276-1712

QUAD COMPARATOR

GENERAL DESCRIPTION

The 339 series consists of four independent voltage comparators which were designed specifically to operate from a single power supply over a wide range of voltages. Operation from split power supplies is also possible and the low power supply current drain is independent of the magnitude of the power supply voltage. These comparators also have a unique characteristic in that the input common-mode voltage range includes ground, even though operated from a single power supply voltage.

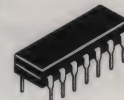
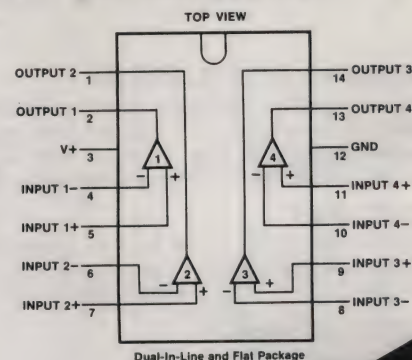
FEATURES

- Wide single supply:
Voltage range $2 V_{DC}$ to $36 V_{DC}$ or dual supplies $\pm 1 V_{DC}$ to $\pm 18 V_{DC}$
- Very low supply current drain (0.8 mA)—independent of supply voltage (1 mW/comparator at $+5 V_{DC}$)
- Input common-mode voltage range includes ground
- Differential input voltage range equal to the power supply voltage
- Low output 1 mV at 5 μ A; saturation voltage 70 mV at 1 mA
- Output voltage compatible with TTL (fanout of 2), DTL, ECL, MOS and CMOS logic systems

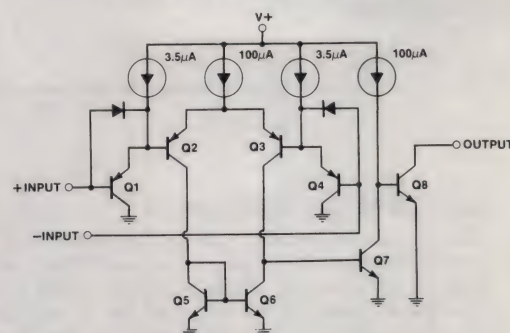
ABSOLUTE MAXIMUM RATINGS

Supply Voltage, V^+	$36 V_{DC}$ or $\pm 18 V_{DC}$
Differential Input Voltage	$36 V_{DC}$
Input Voltage	$-0.3 V_{DC}$ to $+36 V_{DC}$
Power Dissipation	
Molded DIP	570 mW
Cavity DIP	900 mW
Output Short-Circuit to GND	Continuous
Input Current ($V_{IN} < -0.3 V_{DC}$)	50 mA
Operating Temperature Range	0°C to $+70^\circ\text{C}$
Storage Temperature Range	-65°C to $+150^\circ\text{C}$
Lead Temperature (Soldering, 10 seconds)	300°C

PIN CONNECTION



SCHEMATIC DIAGRAM



RS 377
276-702

DUAL TWO-WATT AUDIO AMPLIFIER

GENERAL DESCRIPTION

The 377 is a monolithic dual power amplifier which offers high quality performance for stereo phonographs, tape players, recorders, and AM-FM stereo receivers, etc.

The 377 will deliver 2W/channel into 8 or 16 Ω loads. The amplifier is designed to operate with a minimum of external components and contains an internal bias regulator to bias each amplifier. Device overload protection consists of both internal current limit and thermal shutdown.

FEATURES

- A_{VO} typical 90 dB
- 2W per channel
- 70 dB ripple rejection
- 75 dB channel separation
- Internal stabilization
- Self centered biasing
- 3 M Ω input impedance
- 10-26V operation
- Internal current limiting
- Internal thermal protection

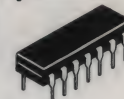
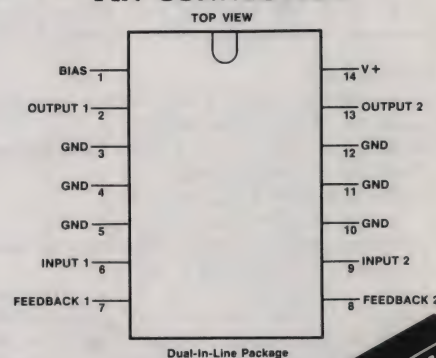
APPLICATIONS

- Multi-channel audio systems
- Tape recorders and players
- Movie projectors
- Automotive systems
- Stereo phonographs
- Bridge output stages
- AM-FM radio receivers
- Intercoms
- Servo amplifiers
- Instrument systems

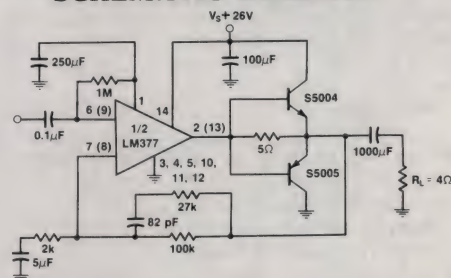
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	26V
Input Voltage	$0V - V_{SUPPLY}$
Operating Temperature	0°C to $+70^\circ\text{C}$
Storage Temperature	-65°C to $+150^\circ\text{C}$
Junction Temperature	150°C
Lead Temperature (Soldering, 10 seconds)	300°C

PIN CONNECTION



SCHEMATIC DIAGRAM



AUDIO POWER AMPLIFIER

RS 380
276-1725

GENERAL DESCRIPTION

The 380 is a power audio amplifier for consumer application. In order to hold system cost to a minimum, gain is internally fixed at 34 dB. A unique input stage allows inputs to be ground referenced. The output is automatically self entering to one half the supply voltage.

The output is short circuit proof with internal thermal limiting. The package outline is standard dual-in-line. A copper lead frame is used with the center three pins on either side comprising a heat sink. This makes the device easy to use in standard p-c layout.

FEATURES

- Wide supply voltage range
- Low quiescent power drain
- Voltage gain fixed at 50
- High peak current capability
- Quiescent output voltage is at one-half of the supply voltage
- Input referenced to GND
- High input impedance
- Low distortion
- Standard dual-in-line package

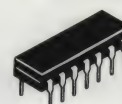
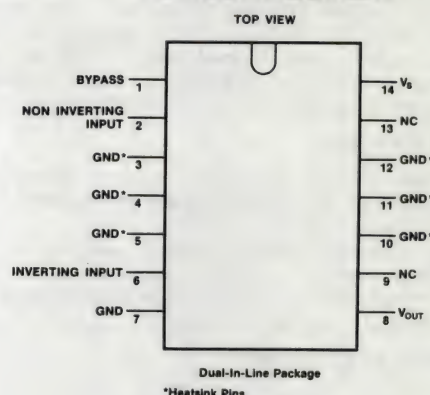
APPLICATIONS

- Phonograph amplifiers
- Intercoms
- Line drivers
- Teaching machine outputs
- Alarms
- Ultrasonic Drivers
- TV sound systems
- AM-FM radio
- Small servo drivers
- Power converters

ABSOLUTE MAXIMUM RATINGS

Supply Voltage.....	22V
Peak Current.....	1.3A
Package Dissipation 14-Pin DIP	10W
Input Voltage.....	±0.5V
Storage Temperature	-65°C to +150°C
Operating Temperature.....	0°C to +70°C
Junction Temperature.....	+150°C
Lead Temperature (Soldering, 10 sec).....	+300°C

PIN CONNECTION



LOW VOLTAGE AUDIO POWER AMPLIFIER

RS 386
276-1731

GENERAL DESCRIPTION

The 386 is a power amplifier designed for use in low voltage consumer applications. The gain is internally set to 20 to keep external part count low, but the addition of an external resistor and capacitor between pins 1 and 8 will increase the gain to any value up to 200.

The inputs are ground referenced while the output is automatically biased to one half the supply voltage. The quiescent power drain is only 18 milliwatts when operating from a 6 volt supply, making the 386 ideal for battery operation.

FEATURES

- Battery operation
- Minimum external parts
- Wide supply voltage range 4-12 Volts
- Low quiescent current drain 3 mA
- Voltage gains from 20 to 200
- Ground referenced input
- Self-centering output quiescent voltage
- Low distortion
- Eight pin dual-in-line package

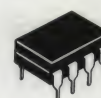
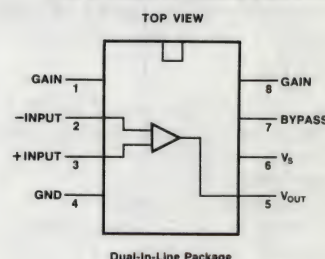
APPLICATIONS

- AM-FM radio amplifiers
- Portable tape player amplifiers
- Intercoms
- TV sound systems
- Line drivers
- Ultrasonic drivers
- Small servo drivers
- Power converters

ABSOLUTE MAXIMUM RATINGS

Supply Voltage.....	15V
Package Dissipation 8 Pin DIP	660 mW
Input Voltage.....	±0.4V
Storage Temperature	-65°C to +150°C
Operating Temperature.....	0°C to +70°C
Junction Temperature.....	+150°C
Lead Temperature (Soldering, 10 seconds)	+300°C

PIN CONNECTION



RS 555
276-1723

TIMER

GENERAL DESCRIPTION

The 555 is a highly stable device for generating accurate time delays or oscillation. Additional terminals are provided for triggering or resetting if desired. In the time delay mode of operation, the time is precisely controlled by one external resistor and capacitor. For astable operation as an oscillator, the free running frequency and duty cycle are accurately controlled with two external resistors and one capacitor. The circuit may be triggered and reset on falling waveforms, and the output circuit can source or sink up to 200 mA or drive TTL circuits.

FEATURES

- Timing from microseconds through hours
- Operates in both astable and monostable modes
- Adjustable duty cycle
- Output can source or sink 200 mA
- Output and supply TTL compatible
- Temperature stability better than 0.005% per °C
- Normally on and normally off output

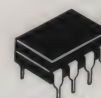
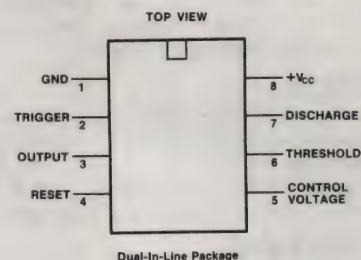
APPLICATIONS

- Precision timing
- Pulse generation
- Sequential timing
- Time delay generation
- Pulse width modulation
- Pulse position modulation
- Linear ramp generator

ABSOLUTE MAXIMUM RATINGS

Supply Voltage.....	+18V
Power Dissipation.....	600 mW
Operating Temperature Ranges.....	0°C to +70°C
Storage Temperature Range.....	-65°C to +150°C
Lead Temperature (Soldering, 10 seconds).....	300°C

PIN CONNECTION



RS 556
276-1728

DUAL TIMER

GENERAL DESCRIPTION

The 556 Dual timing circuit is a highly stable controller capable of producing accurate time delays or oscillation. The 556 is a dual 555. Timing is provided by an external resistor and capacitor for each timing function. The two timers operate independently of each other sharing only V_{CC} and ground. The circuits may be triggered and reset on falling waveforms. The output structures may sink or source 200 mA.

FEATURES

- Timing from microseconds through hours
- Operates in both astable and monostable modes
- Replaces two 555 timers
- Adjustable duty cycle
- Output can source or sink 200 mA
- Output and supply TTL compatible
- Temperature stability better than 0.005% per °C
- Normally on and normally off output

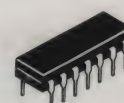
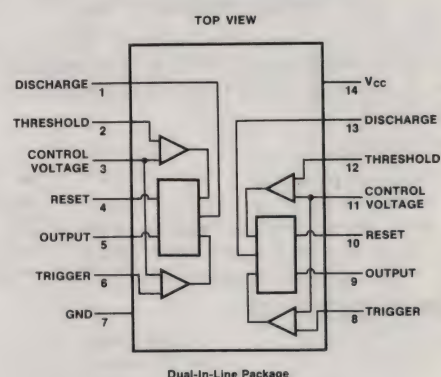
APPLICATIONS

- Precision timing
- Pulse generation
- Sequential timing
- Time delay generation
- Pulse width modulation
- Pulse position modulation
- Linear ramp generator

ABSOLUTE MAXIMUM RATINGS

Supply Voltage.....	+18V
Power Dissipation.....	600 mW
Operating Temperature Range.....	0°C to +70°C
Storage Temperature Range.....	-65°C to +150°C
Lead Temperature (Soldering, 10 seconds).....	300°C

PIN CONNECTION



VOLTAGE CONTROLLED OSCILLATOR

RS 566
276-1724

GENERAL DESCRIPTION

The 566 is a general purpose voltage controlled oscillator which may be used to generate square and triangular waves, the frequency of which is a very linear function of a control voltage. The frequency is also a function of an external resistor and capacitor.

FEATURES

- Wide supply voltage range: 10 to 24 volts
- Very linear modulation characteristics
- High temperature stability
- Excellent supply voltage rejection
- 10 to 1 frequency range with fixed capacitor
- Frequency programmable by means of current, voltage, resistor or capacitor.

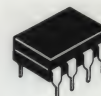
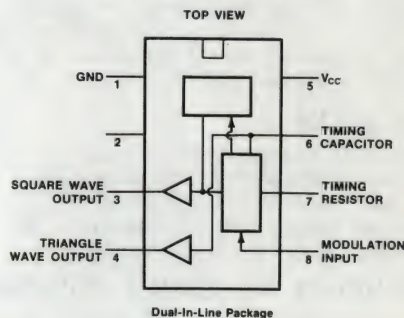
APPLICATIONS

- FM modulation
- Function generation
- Tone generation
- Signal generation
- Frequency shift keying

ABSOLUTE MAXIMUM RATINGS

Power Supply Voltage.....	26V
Power Dissipation.....	300 mW
Operating Temperature Range.....	0°C to 70°C
Lead Temperature (Soldering, 10 sec).....	300°C

PIN CONNECTION



TONE DECODER

RS 567
276-1721

GENERAL DESCRIPTION

The 567 is a general purpose tone decoder designed to provide a saturated transistor switch to ground when an input signal is present within the pass-band. The circuit consists of an I and Q detector driven by a voltage controlled oscillator which determines the center frequency of the decoder. External components are used to independently set center frequency, bandwidth and output delay.

FEATURES

- 20 to 1 frequency range with an external resistor
- Logic compatible output with 100 mA current sinking capability
- Bandwidth adjustable from 0 to 14%
- High rejection of out of band signals and noise
- Immunity to false signals
- Highly stable center frequency
- Center frequency adjustable from 0.01 Hz to 500 kHz

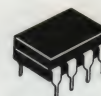
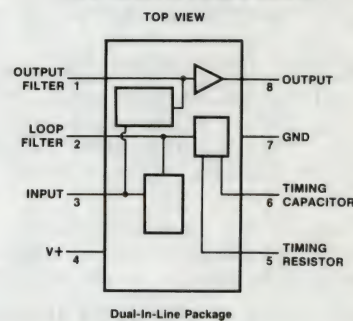
APPLICATIONS

- Touch tone decoding
- Wide band FSK demodulation
- Carrier current remote controls
- Precision oscillator
- Frequency monitoring
- Ultrasonic controls and control
- Communications paging decoders

ABSOLUTE MAXIMUM RATINGS

Supply Voltage Pin.....	10V
Power Dissipation	300 mW
V _B	15V
V ₃	-10V
V ₃	V _B +0.5V
Storage Temperature Range	-65°C to +150°C

PIN CONNECTION



RS 703
276-1738

LOW POWER DRAIN RF/IF AMPLIFIER

GENERAL DESCRIPTION

The 703 is a monolithic RF-IF amplifier, having an efficient DC biasing system, reducing demands upon power supply and decoupling elements. Its low internal feedback guarantees a high stability-limited gain.

Applications include limiting and nonlimiting amplifiers, mixers, and RF oscillators. The 703 is specifically characterized for operation in consumer applications such as TV sound IF, FM-IF limiter amplifier, and Chroma reference oscillator for color TV.

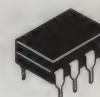
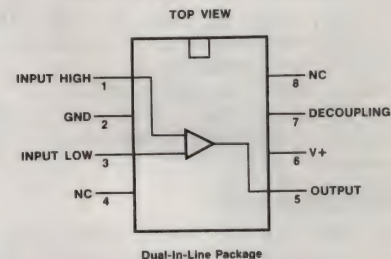
FEATURES

- Power Consumption 96 mW (max.)
- Forward Transadmittance 33 mmhos
- Input Conductance 0.35 mmhos
- Output Conductance 0.03 mmhos
- Peak-to-Peak Output Current 5.0 mA

ABSOLUTE MAXIMUM RATINGS

Supply Voltage.....	20V
Output Collector Voltage.....	24V
Voltage Between Input Terminals.....	$\pm 5.0V$
Internal Power Dissipation.....	200 mW
Operating Temperature Range.....	0°C to 70°C
Storage Temperature Range.....	-65°C to 150°C
Lead Temperature (Soldering, 10 sec).....	300°C

PIN CONNECTION



RS 709
276-017

OPERATIONAL AMPLIFIER

GENERAL DESCRIPTION

The 709 is a monolithic operational amplifier intended for general purpose applications. Operation is completely specified over the range of voltages commonly used for these devices. The design, in addition to providing high gain, minimizes both offset voltage and bias currents. Further, the class-B output stage gives a large output capability with minimum power drain.

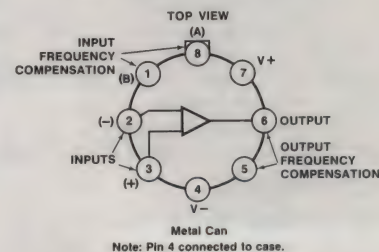
External components are used to frequency compensate the amplifier. Although the unity-gain compensation network specified will make the amplifier unconditionally stable in all feedback configurations, compensation can be tailored to optimize high-frequency performance for any gain setting.

The fact that the amplifier is built on a single silicon chip provides low offset and temperature drift at minimum cost. It also ensures negligible drift due to temperature gradients in the vicinity of the amplifier.

ABSOLUTE MAXIMUM RATINGS

Supply Voltage.....	$\pm 18V$
Power Dissipation.....	300 mW
Differential Input Voltage.....	$\pm 5V$
Input Voltage.....	$\pm 10V$
Output Short-Circuit Duration ($T_A = 25^\circ C$).....	5 sec
Storage Temperature Range.....	-65°C to +150°C
Operating Temperature Range.....	-55°C to +125°C
Lead Temperature (Soldering, 10 seconds).....	300°C

PIN CONNECTION



VOLTAGE REGULATOR

RS 723
276-009
276-1740

GENERAL DESCRIPTION

The 723 is a voltage regulator designed primarily for series regulator applications. By itself, it will supply output currents up to 150 mA; but external transistors can be added to provide any desired load current. The circuit features extremely low standby current drain, and provision is made for either linear or foldback current limiting.

FEATURES

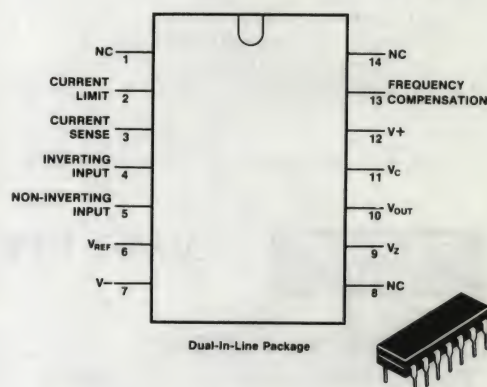
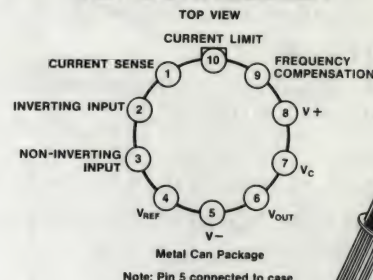
- 150 mA output current without external pass transistor
- Output currents in excess of 10A possible by adding external transistors
- Input voltage 40V max
- Output voltage adjustable from 2V to 37V
- Can be used as either a linear or a switching regulator

The 723 is also useful in a wide range of other applications such as a shunt regulator, a current regulator or a temperature controller.

ABSOLUTE MAXIMUM RATINGS

Pulse Voltage from V^+ to V^- (50 ms)	50V
Continuous Voltage from V^+ to V^-	40V
Input-Output Voltage Differential	40V
Maximum Amplifier Input Voltage (Either Input)	7.5V
Maximum Amplifier Input Voltage (Differential)	5V
Current from V_Z	25 mA
Current from V_{REF}	15 mA
Internal Power Dissipation Metal Can	800 mW
Cavity DIP	900 mW
Molded DIP	660 mW
Operating Temperature Range	0°C to +70°C
Storage Temperature Range Metal Can	-65°C to +150°C
DIP	-55°C to +125°C
Lead Temperature (Soldering, 10 sec)	300°C

PIN CONNECTION



OPERATIONAL AMPLIFIER

RS 741
276-007
276-010

GENERAL DESCRIPTION

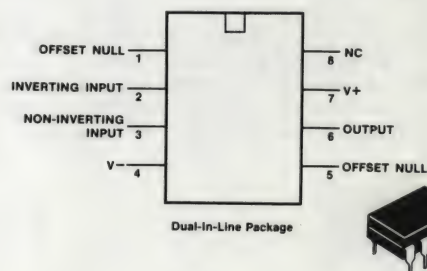
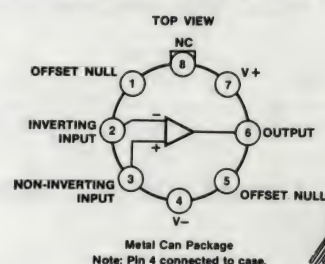
The 741 series are general purpose operational amplifiers which feature improved performance over industry standards.

The amplifiers offer many features which make their application nearly foolproof: overload protection on the input and output, no latch-up when the common mode range is exceeded, as well as freedom from oscillations.

ABSOLUTE MAXIMUM RATINGS

Supply Voltage	±18V
Power Dissipation	500 mW
Differential Input Voltage	±30V
Input Voltage	±15V
Output Short Circuit Duration	Indefinite
Operating Temperature Range	0°C to +70°C
Storage Temperature Range	-65°C to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

PIN CONNECTION



RS 1458
276-038

DUAL OPERATIONAL AMPLIFIER

GENERAL DESCRIPTION

The 1458 is a general purpose dual operational amplifier. The two amplifiers share a common bias network and power supply leads. Otherwise, their operation is completely independent. Features include:

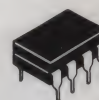
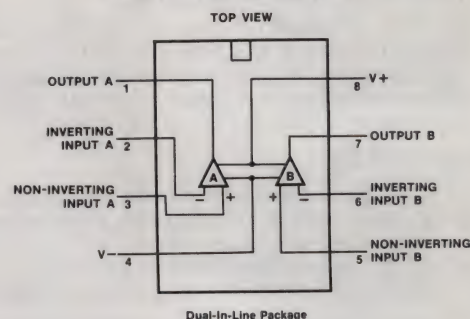
FEATURES

- No frequency compensation required.
- Short-circuit protection
- Wide common-mode and differential voltage ranges
- Low-power consumption
- No latch up when input common mode range is exceeded

ABSOLUTE MAXIMUM RATINGS

Supply Voltage.....	$\pm 18V$
Power Dissipation.....	400 mW
Differential Input Voltage.....	$\pm 30V$
Input Voltage.....	$\pm 15V$
Output Short-Circuit Duration.....	Indefinite
Operating Temperature Range.....	$0^{\circ}C$ to $70^{\circ}C$
Storage Temperature Range.....	$-65^{\circ}C$ to $150^{\circ}C$
Lead Temperature (Soldering, 10 sec).....	$300^{\circ}C$

PIN CONNECTION



RS 3900
276-1713

QUAD OPERATIONAL NORTON AMPLIFIER

GENERAL DESCRIPTION

The 3900 series consists of four independent, dual input, internally compensated amplifiers which were designed specifically to operate off of a single power supply voltage and to provide a large output voltage swing. These amplifiers make use of a current mirror to achieve the non-inverting input function. Application areas include: ac amplifiers, RC active filters, low frequency triangle, squarewave and pulse waveform generation circuits, tachometers and low speed, high voltage digital logic gates.

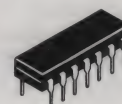
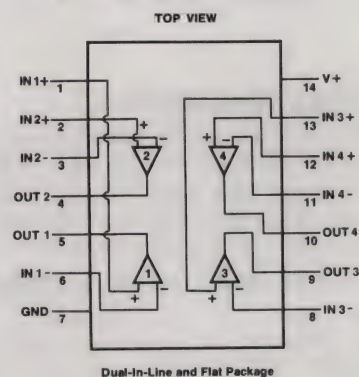
FEATURES

- Wide single supply voltage $4 V_{DC}$ to $36 V_{DC}$ range or dual supplies $\pm 2 V_{DC}$ to $\pm 18 V_{DC}$
- Supply current drain independent of supply voltage
- Low input biasing current 30 nA
- High open-loop gain 70 dB
- Wide bandwidth 2.5 MHz (Unity Gain)
- Large output voltage swing $(V^+ - 1) V_{p-p}$
- Internally frequency compensated for unity gain
- Output short-circuit protection

ABSOLUTE MAXIMUM RATINGS

Supply Voltage.....	$32 V_{DC}$
Supply Voltage.....	$\pm 16 V_{DC}$
Power Dissipation ($T_A = 25^{\circ}C$).....	
Flat Pack.....	800 mW
Input Currents, I_{IN}^+ or I_{IN}^-	$20 mA_{DC}$
Output Short-Circuit Duration—One Amplifier.....	Continuous
$T_A = 25^{\circ}C$ (See Application Hints)	
Operating Temperature Range.....	$0^{\circ}C$ to $+70^{\circ}C$
Storage Temperature Range.....	$-65^{\circ}C$ to $+150^{\circ}C$
Lead Temperature (Soldering, 10 seconds).....	$300^{\circ}C$

PIN CONNECTION



LED FLASHER/OSCILLATOR

RS 3909
276-1705

GENERAL DESCRIPTION

The 3909 is a monolithic oscillator specifically designed to flash Light Emitting Diodes. By using the timing capacitor for voltage boost, it delivers pulses of 2 or more volts to the LED while operating on a supply of 1.5V or less. The circuit is inherently self-starting, and requires addition of only a battery and capacitor to function as a LED flasher.

It has been optimized for low power drain and operation from weak batteries so that continuous operation life exceeds that expected from battery rating.

Application is made simple by inclusion of internal timing resistors and an internal LED current limit resistor.

Timing capacitors will generally be of the electrolytic type, and a small 3V rated part will be suitable for any LED flasher using a supply up to 6V. However, when picking flash rates, it should be remembered that some electrolytics have very broad capacitance tolerances, for example -20% to +100%.

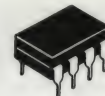
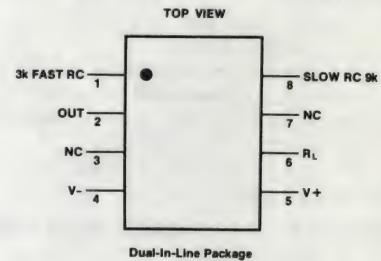
FEATURES

- Operation over one year from one C size flashlight cell
- Bright, high current LED pulse
- Minimum external parts
- Low voltage operation, from just over 1V to 5V
- Low current drain, averages under 0.5 mA during battery life
- Powerful; as an oscillator directly drives an 8Ω speaker

ABSOLUTE MAXIMUM RATINGS

Power Dissipation..... 500 mW
V⁺ Voltage..... 6.4V
Operating Temperature Range..... -25°C to +70°C

PIN CONNECTION



TEMPERATURE CONTROLLER

RS 3911
276-1706

GENERAL DESCRIPTION

The 3911 is a highly accurate temperature measurement and/or control system for use over a -25°C to +85°C temperature range. Fabricated on a single monolithic chip, it includes a temperature sensor, a stable voltage reference and an operational amplifier.

The output voltage of the 3911 is directly proportional to temperature in degrees Kelvin at 10 mV/°K. Using the internal op amp with external resistors any temperature scale factor is easily obtained. By connecting the op amp as a comparator, the output will switch as the temperature transverse the set-point making the device useful as an on-off temperature controller.

An active shunt regulator is connected across the power leads of the 3911 to provide a stable 6.8V voltage reference for the sensing system. This allows the use of any power supply voltage with suitable external resistors.

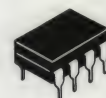
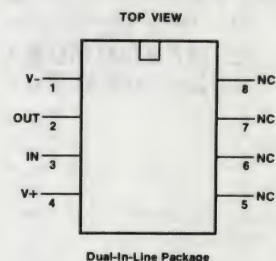
FEATURES

- Uncalibrated accuracy ±10°C
- Internal op amp with frequency compensation
- Linear output of 10 mV/°K (10 mV/°C)
- Can be calibrated in degrees Kelvin, Celsius or Fahrenheit
- Output can drive loads up to 35V

ABSOLUTE MAXIMUM RATINGS

Supply Current (Externally Set)..... 10 mA
Output Collector Voltage V⁺⁺..... 36V
Feedback Input Voltage Range..... 0V to +7.0V
Output Short Circuit Duration..... Indefinite
Operating Temperature Range..... -25°C to +85°C
Storage Temperature Range..... -65°C to +150°C
Lead Temperature (Soldering, 10 seconds)..... 300°C

PIN CONNECTION



RS 4250
276-1732

PROGRAMMABLE OPERATIONAL AMPLIFIER

GENERAL DESCRIPTION

The 4250 is an extremely versatile programmable monolithic operational amplifier. A single external master bias current setting resistor programs the input bias current, input offset current, quiescent power consumption, slew rate, input noise, and the gain-bandwidth product. The device is a truly general purpose operational amplifier.

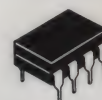
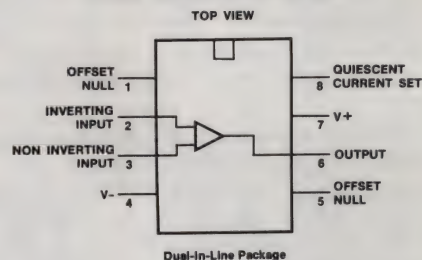
FEATURES

- $\pm 1\text{V}$ to $\pm 18\text{V}$ power supply operation
- 3 nA input offset current
- Standby power consumption as low as 500 nW
- No frequency compensation required
- Programmable electrical characteristics
- Offset Voltage nulling capability
- Can be powered by two flashlight batteries
- Short circuit protection

ABSOLUTE MAXIMUM RATINGS

Supply Voltage.....	$\pm 18\text{V}$
Power Dissipation.....	500 mW
Differential Input Voltage.....	$\pm 30\text{V}$
Input Voltage.....	$\pm 15\text{V}$
I_{SET} Current.....	150 μA
Output Short-Circuit Duration.....	Indefinite
Operating Temperature Range.....	$0^\circ\text{C} \leq T_A \leq 70^\circ\text{C}$
Storage Temperature Range.....	-65°C to 150°C
Lead Temperature (Soldering, 10 sec).....	300°C

PIN CONNECTION



RS 7001
276-1756

MOS/LSI DIGITAL CLOCK/CALENDAR RADIO TIMER

GENERAL DESCRIPTION

The 7001 is an alternating time (8 second display) and calendar (2 second display) chip. To construct this clock/calendar circuit you need only a single power supply, displays and standard interface components. It is compatible with 4 or 6 digit, 7 segment, common cathode, multiplexed displays.

FEATURES

28/30/31 day calendar, 12/24 hour clock and 24 hour alarm with 10 minute snooze control; 50/60Hz operation; 9 hour 59 minute timer; on chip 60Hz back up; 1Hz output and an inhibit input to wire OR the digit and segment outputs to other chips. The setting of any one counter (time, alarm, calendar, timer) does not affect the contents of any other counter.

ABSOLUTE MAXIMUM RATINGS

All specifications are at $T_A = 25^\circ\text{C}$

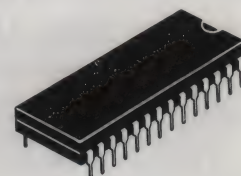
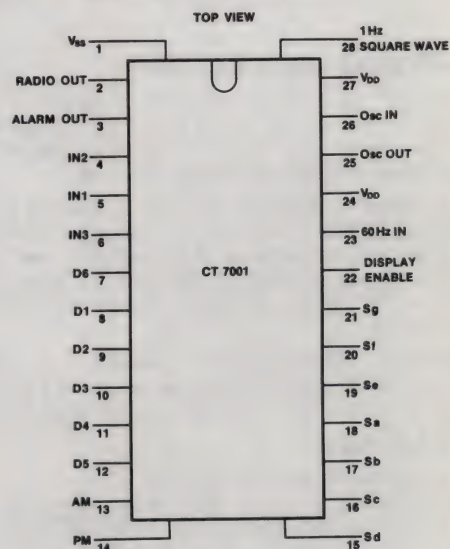
INPUTS:

IN_1, IN_2, IN_3	
V_{IN} "1" level.....	+0.3 V
V_{IN} "0" level.....	$V_{DD} + 0.5\text{ V}$
60 Hz IN, OSC IN, Display Enable	
V_{IN} "1" level.....	+0.3 V
V_{IN} "0" level.....	$V_{DD} + 0.5\text{ V}$
All Inputs @ $V_{IN} = -17\text{ V}$	25 μA

OUTPUTS:

Radio Out, Alarm Out	
I_{OUT} "1" level @ $V_{OUT} = -1.0\text{ V}$	0.5 mA (MIN)
I_{OUT} "0" level @ $V_{OUT} = V_{DD}$	25 μA
D_1 to D_6 , Sa to Sg, 1 Hz sq. wave, AM, PM	
I_{OUT} "1" level @ $V_{OUT} = -4.0\text{ V}$	5.0 mA (MIN)
I_{OUT} "1" level @ $V_{OUT} = -1.0\text{ V}$	1.0 mA (MIN)
I_{OUT} "0" level @ $V_{OUT} = -35.0\text{ V}$	25 μA
OSC Out	
I_{OUT} "1" level @ $V_{OUT} = -1.0\text{ V}$	0.4 mA (MIN)
I_{OUT} "0" level @ $V_{OUT} = V_{DD} + 1.0\text{ V}$	40.0 μA (MIN)

PIN CONNECTION



5 V VOLTAGE REGULATOR 12 V VOLTAGE REGULATOR 15 V VOLTAGE REGULATOR

RS 7805
276-1770
RS 7812
276-1771
RS 7815
276-1772

GENERAL DESCRIPTION

The 78XX series of three terminal regulators is available with several fixed output voltages making them useful in a wide range of applications. One of these is local on card regulation, eliminating the distribution problems associated with single point regulation. The voltages available allow these regulators to be used in logic systems, instrumentation, HiFi, and other solid state electronic equipment. Although designed primarily as fixed voltage regulators these devices can be used with external components to obtain adjustable voltages and currents.

The 78XX series is available in two different packages which will allow over 1.5A load current if adequate heat sinking is provided. Current limiting is included to limit the peak output current to a safe value. Safe area protection for the output transistor is provided to limit internal power dissipation. If internal power dissipation becomes too high for the heat sinking provided, the thermal shutdown circuit takes over preventing the IC from overheating.

FEATURES

- Internal thermal overload protection
- No external components required
- Output transistor safe area protection
- Internal short circuit current limit

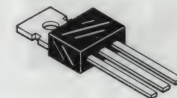
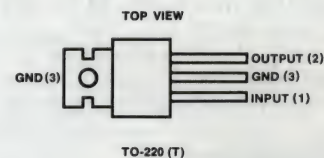
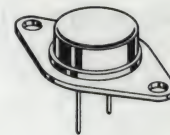
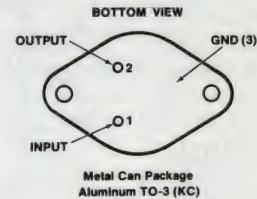
VOLTAGE RANGE

7805.....	5V
7812.....	12V
7815.....	15V

ABSOLUTE MAXIMUM RATINGS

Input Voltage	
(Output Voltage Options 5V through 18V).....	35V
(Output Voltage Option 24V).....	40V
Internal Power Dissipation.....	Internally Limited
Operating Temperature Range.....	0°C to +70°C
Maximum Junction Temperature.....	150°C
Storage Temperature Range.....	-65°C to +150°C
Lead Temperature (Soldering, 10 seconds).....	300°C

PIN CONNECTION



MONOLITHIC JFET INPUT OPERATIONAL AMPLIFIER

RS 13741
276-1733

GENERAL DESCRIPTION

The 13741 is a 741 with BI-FET input followers on the same die. Familiar operating characteristics—THOSE OF A 741—with the added advantage of low input bias current make the 13741 easy to use. Monolithic fabrication makes this "drop-in-replacement" operational amplifier economical as well as easy to use.

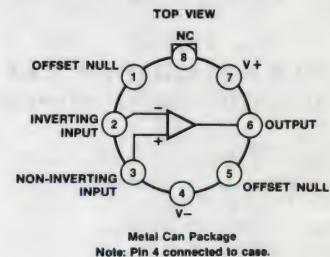
FEATURES

- Low input bias current 50 pA
- Low input noise current 0.01 pA/√Hz
- High input impedance 5 × 10¹¹Ω
- Familiar operating characteristics

ABSOLUTE MAXIMUM RATINGS

Supply Voltage.....	±18V
Power Dissipation.....	500 mW
TO-99 (H Package)	
Operating Temperature Range.....	0°C to +70°C
T _j (MAX).....	100°C
Differential Input Voltage.....	±30V
Input Voltage Range.....	±16V
Output Short Circuit Duration.....	Continuous
Storage Temperature Range.....	-65°C to +150°C
Lead Temperature (Soldering, 10 seconds).....	300°C

PIN CONNECTION



RS 50252
276-1751

MOS/LSI DIGITAL ALARM CLOCK

GENERAL DESCRIPTION

This 50252 device is a versatile MOS/LSI clock circuit. To construct a digital alarm clock, you need only a simple power supply, display and standard interface components. It is compatible with 4 or 6 digit, 7 segment multiplexed displays. The scanning oscillator is completely internal and requires no external components. The alarm operates in a 24 hour mode, which allows the alarm to be disabled and immediately reenabled to activate 24 hours later. The snooze inhibits an activated alarm for 10 minutes. The alarm output is a tone, thus eliminating an external oscillator.

CAUTION These devices are extremely susceptible to damage from static charge. We recommend that you handle them by the ends.
DO NOT TOUCH THE PINS.

APPLICATIONS

- AM/PM and circuit activity signal
- Intensity control
- 12 hr/60 Hz or 24 hr./50Hz capability

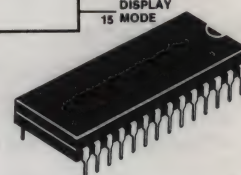
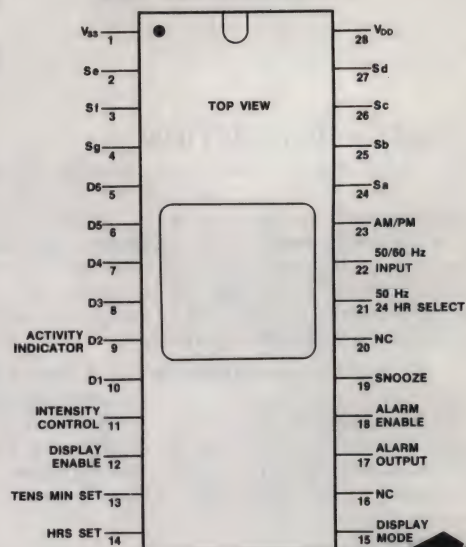
RECOMMENDED OPERATING CONDITIONS FREE AIR:

Operating Voltage V_{DD}	
Relative to V_{SS}	-18 V to -9 V
Input Logic Levels	
"1" Logic Level	$V_{SS} - 0.3 \text{ V}$ to $V_{SS} + 0.3 \text{ V}$
"0" Logic Level	-18 V to $V_{DD} + 0.5 \text{ V}$

ABSOLUTE MAXIMUM RATINGS

Voltage on any Pin Relative to V_{SS}	plus 0.3 V to -18 V
Output Voltage Breakdown on any	
Output Relative to V_{SS}	-18 V @ 10 μA
Operating Free-Air Temperature Range	0°C to 55°C

PIN CONNECTION



RS 75491
276-1701
RS 75492
276-1702

QUAD LED SEGMENT DRIVER
HEX LED DIGIT DRIVER

GENERAL DESCRIPTION

The 75491 and 75492 are designed to interface MOS logic to common cathode light-emitting diode readouts in serially addressed multi-digit displays. Using a segment address and digit scan LED drive method in a time multiplexing system results in a minimizing of the number of required drivers.

FEATURES

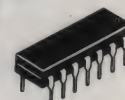
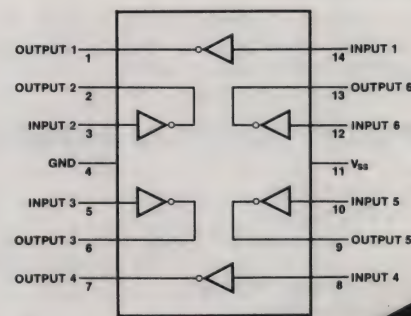
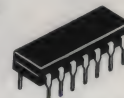
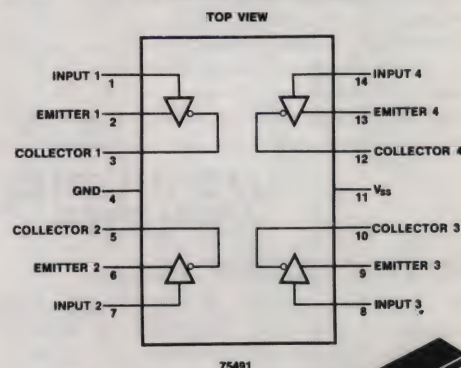
- Low Input Current Requirement for MOS Compatibility
- Low Standby Power Drain
- Source or Sink Current Capability of 50 mA for 75491
- Sink Current Capability of 250 mA for 75492
- Four High-Gain Darlington Drivers in a Single Package—75491
- Six High-Gain Darlington Drivers in a Single Package—75492

ABSOLUTE MAXIMUM RATINGS

($T_A = 0$ to +70°C unless otherwise noted.)

	75491	75492
Bias Supply Voltage	10 Vdc	10 Vdc
Input Voltage	-5.0 to V_{SS} Vdc	-5.0 to V_{SS} Vdc
Collector Voltage	10 Vdc	10 Vdc
Collector-to-Emitter Voltage	10 Vdc	-Vdc
Collector-to-Input Voltage	10 Vdc	10 Vdc
Emitter Voltage ($V_{IN} \geq 5.0 \text{ Vdc}$)	10 Vdc	-Vdc
Emitter-to-Input Voltage	5.0 Vdc	-Vdc
Continuous Collector Current		
(Each Collector)	50 mA	250 mA
(All Collectors)	200 mA	600 mA
Power Dissipation (Package Limitation)		
Ceramic and Plastic Dual In-Line Packages		830 mW
Derate above $T_A = +25^\circ\text{C}$		6.6 mW/°C
Operating Temperature Range		0 to +70°C
Storage Temperature Range		-65+ to +150°C

PIN CONNECTION



1024-BIT STATIC RANDOM ACCESS MEMORY

RS 2102
 276-2501

GENERAL DESCRIPTION

The 2102 is a 1024-bit random access memory fabricated with high-density, high-reliability, N-channel, silicon-gate technology. For ease of use, the device operates from a single power supply, is directly compatible with TTL and DTL, and requires no clocks or refreshing because of static operation.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit.

FEATURES

- 1024 Word by 1 Bit Organization
- Access Time = 1000 nA
- Low Power Dissipation—150mW Typical
- Static Operation
- Single +5-Volt Supply
- Direct TTL/DTL Compatibility
- Three-State Output
- Chip Enable for Memory Expansion
- Cost Effective Data Storage

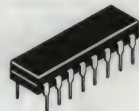
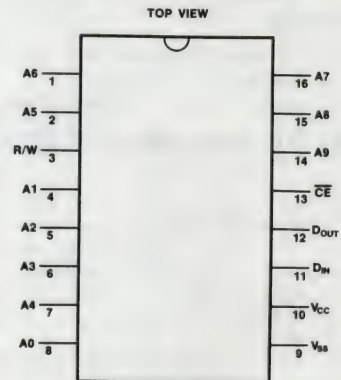
RECOMMENDED DC OPERATING CONDITIONS
(Referenced to V_{SS})

Supply Voltage.....	4.75 - 5.25 Vdc (MIN-MAX)
Input Low Voltage.....	-0.3 - 0.65 Vdc (MIN-MAX)
Input High Voltage.....	2.2 - 5.25 Vdc (MIN-MAX)

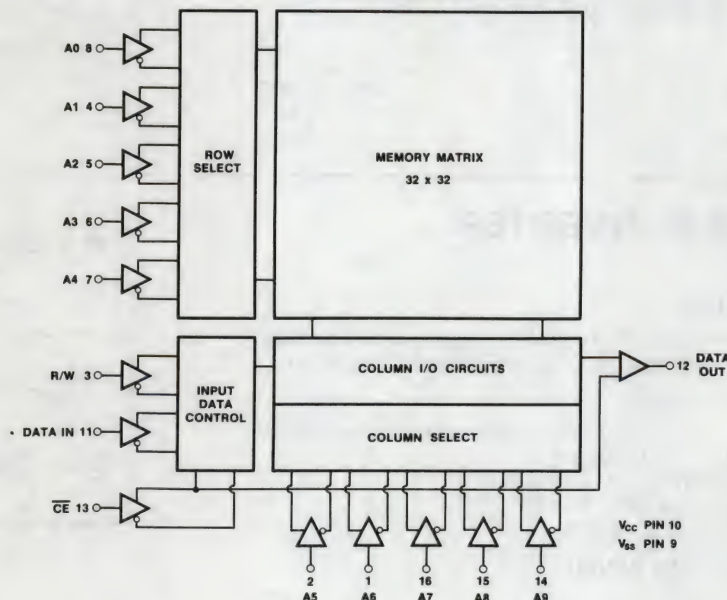
ABSOLUTE MAXIMUM RATINGS
(Referenced to V_{SS})

Supply Voltage.....	-0.3 to plus 7.0 Vdc
Input Voltage.....	-0.3 to plus 7.0 Vdc
Operating Temperature Range.....	.0°C to plus 70°C
Storage Temperature Range.....	-55°C to plus 150°C

PIN CONNECTION



LOGIC DIAGRAM



RS 7400
276-1801

QUADRUPLE TWO-INPUT NAND GATE

GENERAL DESCRIPTION

Employing TTL (Transistor-Transistor-Logic) to achieve high speed at moderate power dissipation, these gates provide the basic functions used in the implementation of digital integrated circuit systems. Characteristics of the circuits include high noise immunity, low output impedance, good capacitive drive capability, and minimal variation in switching times with temperature.

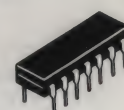
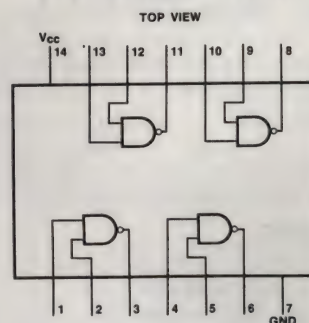
FEATURES

- Guaranteed Noise Immunity 400 mV
- Typical Noise Immunity 1V
- Average Propagation Delay 13 ns
- Fan Out 10
- Average Power Dissipation 10 mW per gate

ABSOLUTE MAXIMUM RATINGS

V_{CC}	7.0V
Input Voltage.....	5.5V
Storage Temperature Range	-65°C to +150°C
Fan-Out	10
Lead Temperature (Soldering, 10 sec).....	300°C
Supply Voltage (V_{CC}).....	4.75—5.25V
Temperature (T_A).....	0°C to 70°C

PIN CONNECTION



RS 7402
276-1811

QUAD TWO-INPUT NOR GATE

GENERAL DESCRIPTION

The 7402 is a quad 2-input NOR gate utilizing TTL (Transistor-Transistor Logic) to achieve high speed at nominal power dissipation.

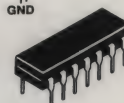
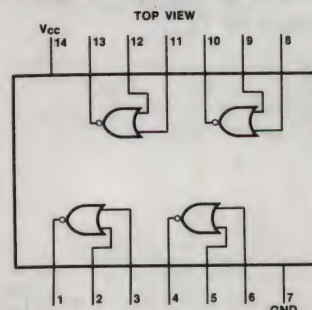
FEATURES

- Input Clamping Diodes
- Guaranteed Noise Immunity 400 mV
- Typical Noise Immunity 1V
- Fan-out 10
- Allowable Power Supply Variation 4.75V to 5.25V
- Average Propagation Delay 12 ns (with 50 pF)
- Average Power Dissipation 14 mW per gate

ABSOLUTE MAXIMUM RATINGS

V_{CC}	7V
Input Voltage.....	5.5V
Operating Temperature Range	0°C to 70°C
Storage Temperature Range	-65°C to +150°C
Lead Temperature (Soldering, 10 sec).....	300°C

PIN CONNECTION



RS 7404
276-1802

HEX INVERTER

GENERAL DESCRIPTION

The 7404 is a hex inverter utilizing TTL to achieve high speed at nominal power dissipation. It is totally compatible with other Series 74 devices.

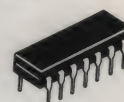
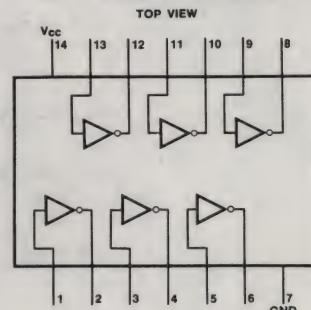
FEATURES

- Input clamping diodes
- Guaranteed Noise Immunity 400 mV
- Typical Noise Immunity 1V
- Fan-out 10
- Allowable Power Supply Variation 4.75V to 5.25V
- Average Propagation Delay 12 ns (with 50 pF)
- Average Power Dissipation 10 mW per gate

ABSOLUTE MAXIMUM RATINGS

V_{CC}	7V
Input Voltage.....	5.5V
Operating Temperature Range	0°C to 70°C
Storage Temperature Range	-65°C to +150°C
Lead Temperature (soldering, 10 sec).....	300°C

PIN CONNECTION



HEX INVERTER BUFFER/DRIVER**RS 7406**
276-1821**GENERAL DESCRIPTION**

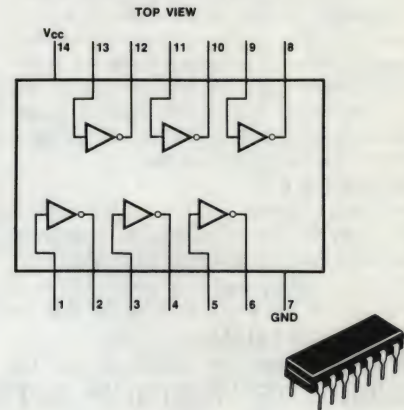
The TTL hex inverter buffer/driver is fully compatible for use with TTL and DTL logic circuits. Each inverter features high-voltage, open-collector outputs (30 volts minimum breakdown.)

FEATURES

- Input clamp diodes
- High voltage open-collector outputs 30V
- High sink current capability 40 mA
- 15 ns typical propagation delay time

ABSOLUTE MAXIMUM RATINGS

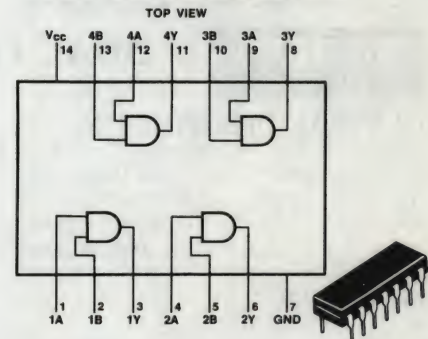
Supply Voltage.....	7.0V
Input Voltage.....	5.5V
Output Voltage.....	30V
Storage Temperature Range.....	-65°C to +150°C
Lead Temperature, (Soldering, 10 Sec).....	300°C
Supply Voltage.....	4.75—5.25V
Temperature (T _A).....	0—70°C
Output Sink Current.....	40 mA

PIN CONNECTION**QUAD TWO-INPUT AND GATE****RS 7408**
276-1822**GENERAL DESCRIPTION**

7408 provides the non-inverting AND function in the popular quad 2-input pin configuration.

ABSOLUTE MAXIMUM RATINGS

Supply Voltage.....	7V
Input Voltage.....	5.5V
Output Voltage.....	5.5V
Storage Temperature Range.....	-65°C to +150°C
Lead Temperature (Soldering, 10 sec).....	300°C
Supply Voltage (V _{CC}).....	4.75—5.25V
Temperature (T _A).....	0°C to 70°C

PIN CONNECTION**TRIPLE THREE-INPUT NAND GATE****RS 7410**
276-1807**GENERAL DESCRIPTION**

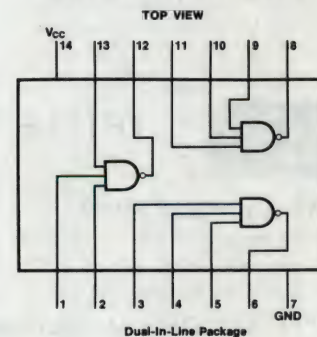
Employing TTL (Transistor-Transistor-Logic) to achieve high speed at moderate power dissipation, these gates provide the basic functions used in the implementation of digital integrated circuit systems. Characteristics of the circuits include high noise immunity, low output impedance, good capacitive drive capability, and minimal variation in switching times with temperature.

FEATURES

- Typical Noise Immunity 1V
- Guaranteed Noise Immunity 400 mV
- Fan Out 10
- Average Propagation Delay 13 ns
- Average Power Dissipation 10 mW per gate

ABSOLUTE MAXIMUM RATINGS

V _{CC}	7.0V
Input Voltage.....	5.5V
Storage Temperature Range.....	-65°C to +150°C
Fan-Out.....	10
Lead Temperature (Soldering, 10 sec).....	300°C
Supply Voltage (V _{CC}).....	4.75—5.25V
Temperature (T _A).....	0°C to 70°C

PIN CONNECTION

RS 7413
276-1815

DUAL SCHMITT-TRIGGER

GENERAL DESCRIPTION

The 7413 is a dual Schmitt-trigger with input gating. It differs from a conventional dual 4-input gate in that instead of having a single threshold voltage, the 7413 has different thresholds for positive-and negative-going inputs. When the output is in the logical "0" state an input must be lowered to 0.9 volts typically before the output changes state. Conversely in order to return to the logical "0" state the input must rise to 1.7V typically. This hysteresis is extremely beneficial in applications where slow rise and fall time signals are prevalent.

FEATURES

- 800 mV hysteresis typ.—higher noise immunity
- Operation from very slow ramp voltages
- Temperature compensated design
- Typical propagation delay—17 ns
- Typical power dissipation 42 mW per function

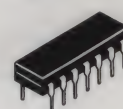
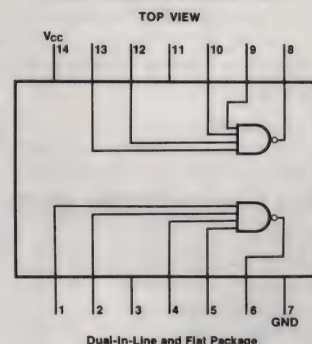
APPLICATIONS

- Pulse shaper
- Threshold detector

ABSOLUTE MAXIMUM RATINGS

Supply Voltage.....	7V
Input Voltage.....	5.5V
Output Voltage.....	5.5V
Operating Temperature Range.....	0°C to +70°C
Storage Temperature Range.....	-65°C to +150°C
Lead Temperature (Soldering, 10 sec).....	300°C

PIN CONNECTION



RS 7420
276-1809

DUAL FOUR-INPUT NAND GATE

GENERAL DESCRIPTION

Employing TTL (Transistor-Transistor-Logic) to achieve high speed at moderate power dissipation, these gates provide the basic functions used in the implementation of digital integrated circuit systems. Characteristics of the circuits include high noise immunity, low output impedance, good capacitive drive capability, and minimal variation in switching times with temperature.

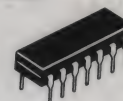
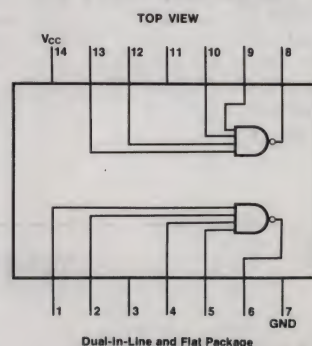
FEATURES

- Typical Noise Immunity 1V
- Fan Out 10
- Guaranteed Noise Immunity 400 mV
- Average Propagation Delay 13 ns
- Average Power Dissipation 10 mW per gate

ABSOLUTE MAXIMUM RATINGS

V _{CC}	7.0V
Input Voltage.....	5.5V
Storage Temperature Range.....	-65°C to +150°C
Fan-Out.....	10
Lead Temperature (Soldering, 10 sec).....	300°C
Supply Voltage (V _{CC}).....	4.75—5.25V
Temperature (T _A).....	0°C to 70°C

PIN CONNECTION



RS 7427
276-1823

TRIPLE THREE-INPUT NOR GATE

GENERAL DESCRIPTION

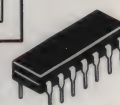
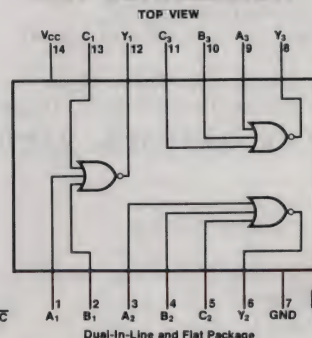
The NOR gate described here is designed to provide additional versatility to the line of 74 functions.

The 7427 has neither expandable inputs nor Strobe.

ABSOLUTE MAXIMUM RATINGS

Supply Voltage.....	7.0V
Input Voltage.....	5.5V
Output Voltage.....	5.5V
Storage Temperature Range.....	-65°C to +150°C
Lead Temperature (Soldering, 10 seconds).....	300°C
Supply Voltage (V _{CC}).....	4.75—5.25V
Temperature (T _A).....	0°C to 70°C

PIN CONNECTION



QUAD TWO-INPUT OR GATE

RS 7432
276-1824

GENERAL DESCRIPTION

The 7432 is a quad 2-input OR gate utilizing TTL (Transistor-Transistor Logic) to provide the basic functions used in the implementation of digital integrated circuit systems. The device is completely compatible with all other Series 74 devices.

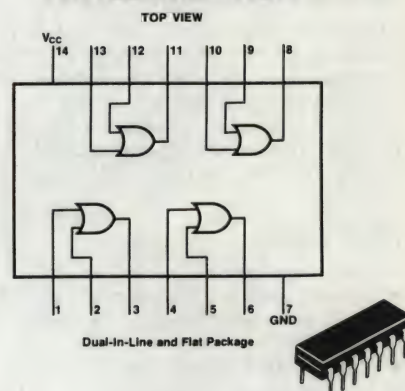
FEATURES

- Popular digital logic block
- Saves inverter function when sign inversion is not needed

ABSOLUTE MAXIMUM RATINGS

Supply Voltage.....	7V
Input Voltage.....	5.5V
Output Voltage.....	5.5V
Operating Temperature Range.....	0°C to 70°C
Storage Temperature Range.....	-65°C to 150°C
Lead Temperature (Soldering, 10 sec).....	300°C

PIN CONNECTION



BCD TO DECIMAL DECODER/DRIVER

RS 7441
276-1804

GENERAL DESCRIPTION

The 7441 is monolithic binary-coded-decimal to decimal decoder. The BCD number to be decoded is applied to the four input lines; and the unique output corresponding to the decimal equivalent of the input number falls to a logical 0 level. Outputs are designed to drive gas-filled-readout tubes but are also able to operate with other low current lamps and relays.

An over-range feature provides that if binary numbers between 10 and 15 are applied to the input the least significant bit of these numbers (0 through 5) will be decoded on the output.

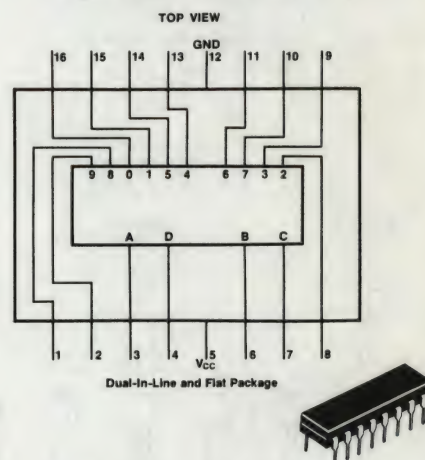
FEATURES

- Drive cold-cathode, numeric indicator tubes directly
- Fully decoded inputs
- Low leakage current 1.8μ A @ 50V
- Low power dissipation 105 mW typical

ABSOLUTE MAXIMUM RATINGS

Supply Voltage (V _{CC}).....	7.0V
Output Voltage.....	70V
Input Voltage.....	5.5V
Operating Temperature Range.....	0°C to +70°C
Storage Temperature Range.....	-65°C to +150°C
Lead Temperature (Soldering, 10 sec).....	300°C

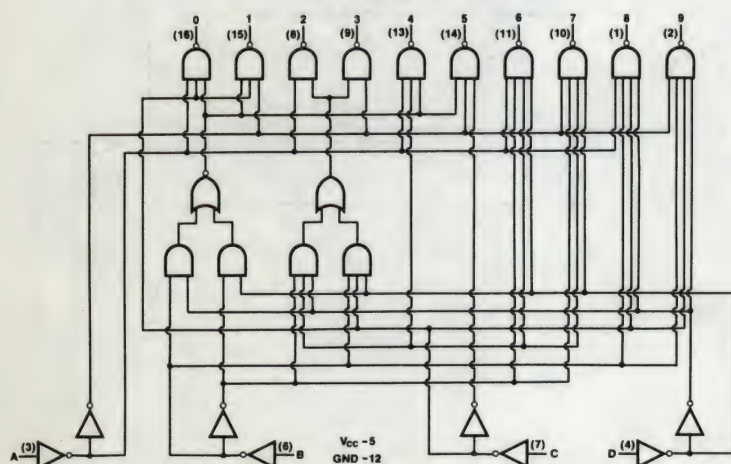
PIN CONNECTION



TRUTH TABLE

INPUT				LOW OUTPUT
D	C	B	A	
0	0	0	0	0
0	0	0	1	1
0	0	1	0	2
0	0	1	1	3
0	1	0	0	4
0	1	0	1	5
0	1	1	0	6
0	1	1	1	7
1	0	0	0	8
1	0	0	1	9
(OVER RANGE)				
1	0	1	0	0
1	0	1	1	1
1	1	0	0	2
1	1	0	1	3
1	1	1	0	4
1	1	1	1	5

LOGIC DIAGRAM



COMPLETE DATA AND SPECIFICATIONS SUPPLIED WITH EACH DEVICE

RS 7447
276-1805

BCD TO SEVEN-SEGMENT DECODER/DRIVER

GENERAL DESCRIPTION

This versatile series of 7-segment display drivers fulfills a wide variety of requirements for most active high (common cathode) and active low (common anode) Light Emitting Diodes (LED) or lamp displays. Each device fully decodes a 4-bit BCD input into a number from 0 through 9 in the standard 7-segment display format, and BCD numbers above 9 into unique patterns that verify operation. All circuits operate off of a single 5.0V supply. The 7447 outputs withstand 15V at a maximum leakage current of 250 μ A.

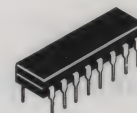
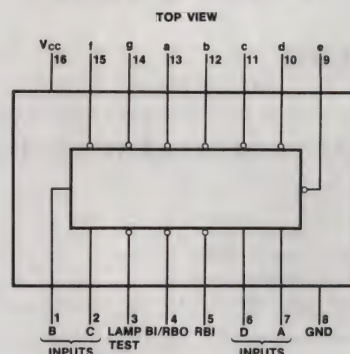
FEATURES

- Lamp-test input
- Leading/trailing zero suppression (RBI and RBO)
- Blanking input that may be used to modulate lamp intensity or inhibit output
- TTL and DTL compatible
- Input clamping diodes

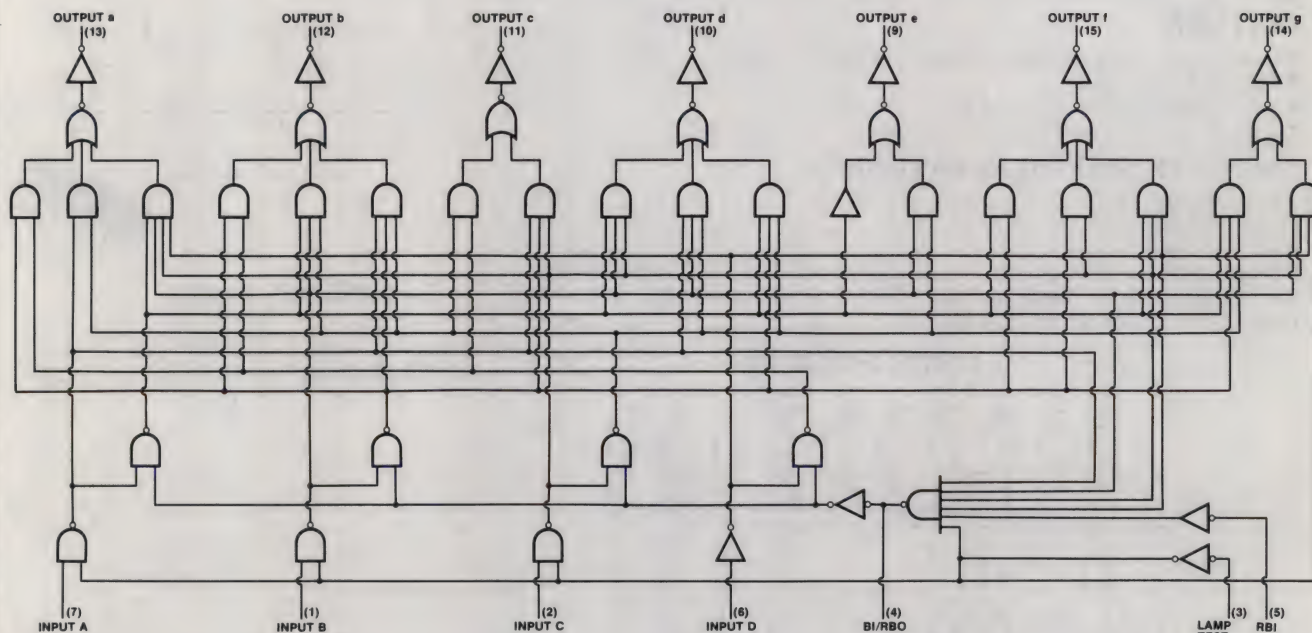
ABSOLUTE MAXIMUM RATINGS

Supply voltage V_{CC}	4.75-5.25 volts
Continuous voltage at outputs a-g	Max. 5.5 volts
Logic 1 input voltage	Min. 2 volts
Logic 0 input voltage	Max. 0.8 volts
Logic 0 output voltage	Max. 0.4 volts
Logic 1 output voltage at a-g	Min. 2.4 volts
Logic 1 output voltage at BI/RBO	Min. 2.4 volts

PIN CONNECTION



LOGIC DIAGRAM



BCD TO SEVEN-SEGMENT DECODER/DRIVERS

RS 7448
276-1816

GENERAL DESCRIPTION

This versatile series of 7-segment display drivers fulfills a wide variety of requirements for most active high (common cathode) and active low (common anode) Light Emitting Diodes (LED) or lamp displays. Each device fully decodes a 4-bit BCD input into a number from 0 through 9 in the standard 7-segment display format, and BCD numbers above 9 into unique patterns that verify operation. All circuits operate off of a single 5.0V supply.

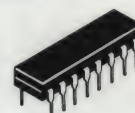
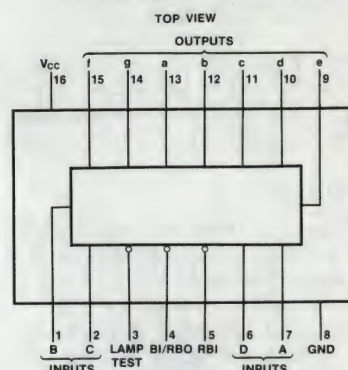
FEATURES

- Lamp-test input
- Leading/trailing zero suppression (RBI and RBO)
- Blanking input that may be used to modulate lamp intensity or inhibit output
- TTL and DTL compatible
- Input clamping diodes

ABSOLUTE MAXIMUM RATINGS

Supply voltage V_{CC}	4.75-5.25 volts
Continuous voltage at outputs a-g	Max. 5.5 volts
Logic 1 input voltage	Min. 2 volts
Logic 0 input voltage	Max. 0.8 volts
Logic 0 output voltage	Max. 0.4 volts
Logic 1 output voltage at a-g	Min. 2.4 volts
Logic 1 output voltage at BI/RBO	Min. 2.4 volts

PIN CONNECTION



DUAL TWO-WIDE TWO-INPUT AND-OR-INVERT GATE

RS 7451
276-1825

GENERAL DESCRIPTION

The devices described in this data sheet employ TTL to achieve high speed at moderate power dissipation. They are consolidated onto one sheet since they perform the AND-OR-INVERT function with only differing numbers of AND inputs and OR terms. Characteristics include high noise immunity, low output impedance, good capacitance drive capability, and minimal variation in switching time with temperature. The gates are compatible with and interchangeable with Series 74 devices.

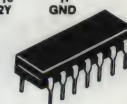
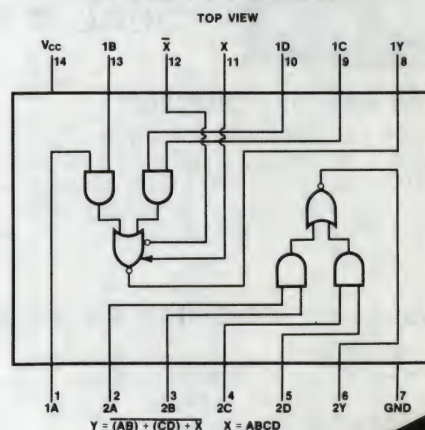
FEATURES

- Input Clamping Diodes
- Typical Noise Immunity 1 Volt
- Guaranteed Noise Immunity 400 mV
- Fan-out 10
- Average Propagation Delay 13 ns
- Average Power Dissipation 14 mW/gate

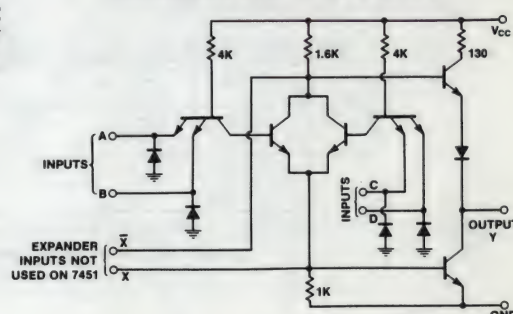
ABSOLUTE MAXIMUM RATINGS

V_{CC}	7V
Input Voltage	5.5V
Storage Temperature Range	-65°C to +150°C
Fan-Out	10
Lead Temperature (Soldering, 10 sec)	300°C
Supply Voltage (V_{CC})	4.75-5.25V
Temperature (T_A)	0°C to 70°C

PIN CONNECTION



SCHEMATIC DIAGRAM



RS 7473
276-1803

DUAL JK MASTER/SLAVE FLIP FLOP

GENERAL DESCRIPTION

The flip flops described herein are TTL (Transistor-Transistor Logic) dual JK Master/Slave flip flops. Asynchronous CLEAR inputs are provided on the flip flops. The device is totally monolithic and designed for use in high speed control and counting applications, where economy is required, and multiple data inputs are not required. These devices meet all of the electrical and mechanical requirements of the equivalent 74 device.

FEATURES

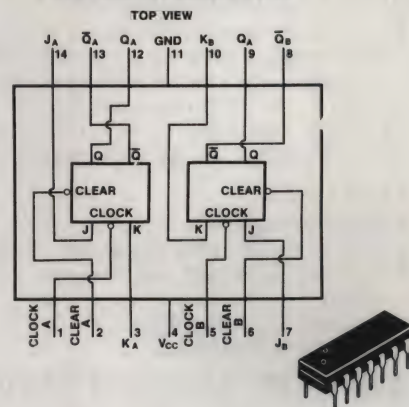
- High Speed of Operation 25 MHz toggling
- Optimum Power Dissipation 45 mW/ff
- High Noise Immunity 1V
- Guaranteed Clock Skew 15 ns

This device also features a special clock line clamp to reduce ringing and prevent false clocking. In addition, the usual speed-power efficiency and high output drive-capability normally gained with TTL circuits are retained.

ABSOLUTE MAXIMUM RATINGS

Supply Voltage.....	+7V
Input Voltage.....	5.5V
Fan Out	10
Storage Temperature Range	-65°C to +150°C
Operating Temperature Range	0°C to +70°C
Lead Temperature (soldering 10 sec)	300°C

PIN CONNECTION



TRUTH TABLE (Each Flip-Flop)

t_n		t_{n+1}
J	K	Q
0	0	Q_n
0	1	0
1	0	1
1	1	\bar{Q}_n

t_n = bit time before clock pulse.

t_{n+1} = bit time after clock pulse.

RS 7474
276-1818

DUAL D FLIP FLOP

GENERAL DESCRIPTION

The 7474 is designed for use where the flexibility of 2 inputs is not required. It has only a single DATA (D) input. The logical level applied to this input is transferred to the Q output when the clock pulse voltage rises to a logical 1. Since only one pin is used for data entry, fully asynchronous (both PRESET and CLEAR) capability can be provided in a 14 pin dual in-line package.

ABSOLUTE MAXIMUM RATINGS

Supply voltage V_{CC}	4.75—5V (MIN-NOM)
Normalized fan-out from each output, N.....	10 (MAX)
Width of clock pulse, t_p (clock).....	30 ns (MIN)
Width of preset pulse, t_p (preset).....	30 ns (MIN)
Width of clear pulse, t_p (clear).....	30 ns (MIN)
Operating free-air temperature range, T_A	0—70°C (MIN-MAX)

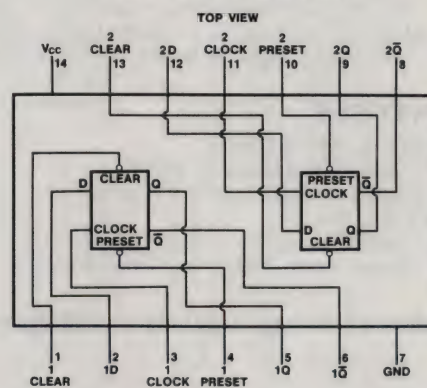
TRUTH TABLE (Each Flip-Flop)

t_n	t_{n+1}	
INPUT	OUTPUT	OUTPUT
D	Q	\bar{Q}
0	0	1
1	1	0

NOTES: 1. t_n = bit time before clock pulse.

2. t_{n+1} = bit time after clock pulse.

PIN CONNECTION



POSITIVE LOGIC:
Low input to preset sets Q to logical 1
Low input to clear sets Q to logical 0
Preset and clear are independent of clock

QUAD LATCH

RS 7475
276-1806

GENERAL DESCRIPTION

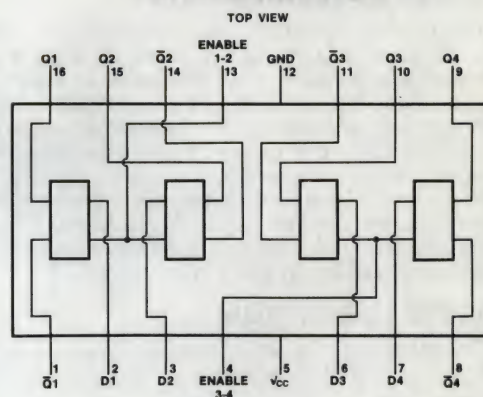
This latch is ideally suited for use as temporary storage for binary information between processing units and input/output or indicator units. Information present at a data (D) input is transferred to the Q output when the enable (G) is high, and the Q output will follow the data input as long as the enable remains high. When the enable goes low, the information (that was present at the data input at the time the transition occurred) is retained at the Q output until the enable is permitted to go high.

The 7475, features complementary Q and \bar{Q} outputs from a 4-bit latch, and are available in 16-pin packages.

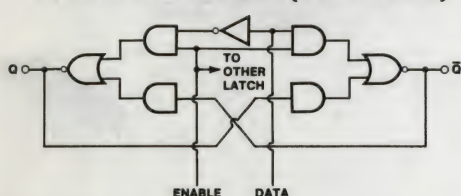
ABSOLUTE MAXIMUM RATINGS

Supply voltage V_{CC}	4.75—5.25V
Logic input 1 voltage	2.0V Min.
Logic input 0 voltage	0.8V Max.
Logic output 1 voltage	2.4V Min.
Logic output 0 voltage	0.4V Max.

PIN CONNECTION



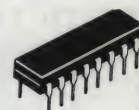
LOGIC DIAGRAM (Each Latch)



TRUTH TABLE (Each Latch)

INPUTS		OUTPUTS	
D	G	Q	\bar{Q}
L	H	L	H
H	H	H	L
X	L	Q_0	\bar{Q}_0

H = High Level, L = Low Level, X = Don't Care
 Q_0 = The Level of Q Before the High-to-Low Transition of G



DUAL JK MASTER/SLAVE FLIP-FLOP

RS 7476
276-1813

GENERAL DESCRIPTION

Incorporates separate presets, clears, and clocks. Clock pulse controls inputs to master section, and also regulates coupling between master and slave sections.

ABSOLUTE MAXIMUM RATINGS

Supply voltage V_{CC}	4.75—5.25V
Logic input 1 voltage	2.0V Min.
Logic input 0 voltage	0.8V Max.
Logic output 1 voltage	2.4V Min.
Logic output 0 voltage	0.4V Max.

TRUTH TABLE

INPUTS					OUTPUTS	
PR	CLR	CLK	J	K	Q	\bar{Q}
L	H	X	X	X	H	L
H	L	X	X	X	L	H
L	L	X	X	X	H^*	H^*
H	H	\square	L	L	Q_0	\bar{Q}_0
H	H	\square	H	L	H	L
H	H	\square	L	H	L	H
H	H	\square	H	H	TOGGLE	TOGGLE

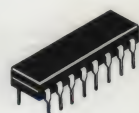
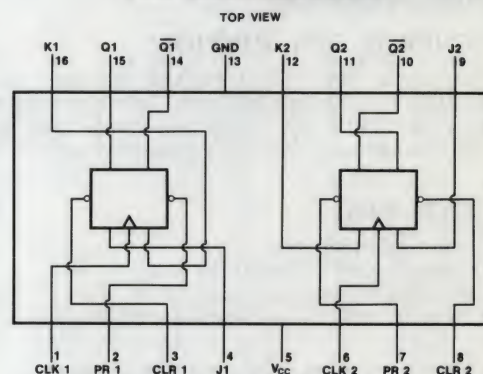
Notes: \square = high-level pulse; data inputs should be held constant while clock is high; data is transferred to output on the falling edge of the pulse.

Q_0 = the level of Q before the indicated input conditions were established

TOGGLE: Each output changes to the complement of its previous level on each active transition (pulse) of the clock.

*This configuration is nonstable; that is, it will not persist when preset and clear inputs return to their inactive (high) level.

PIN CONNECTION



RS 7485
276-1826

FOUR-BIT MAGNITUDE COMPARATOR

GENERAL DESCRIPTION

This four-bit magnitude comparator performs comparison of straight binary or BCD codes. Three fully-decoded decisions about two, 4-bit words (A, B) are made and are externally available at three outputs. This device is fully expandable to any number of bits without external gates. Words of greater length may be compared by connecting comparators in cascade. The $A > B$, $A < B$, and $A = B$ outputs of a stage handling less-significant bits are connected to the corresponding inputs of the next stage handling more-significant bits. The stage handling the least-significant bits must have a high-level voltage applied to the $A = B$ input. The cascading paths of the 85 are implemented with only a two-gate-level delay to reduce overall comparison times for long words.

TYPICAL RATINGS

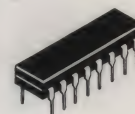
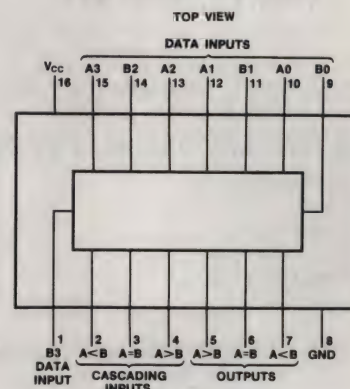
Typical power dissipation..... 275 mW
Typical delay (4-bit words)..... 23 ns

TRUTH TABLE

COMPARING INPUTS				CASCADING INPUTS			OUTPUTS		
A3, B3	A2, B2	A1, B1	A0, B0	A>B	A<B	A=B	A>B	A<B	A=B
A3>B3	X	X	X	X	X	X	H	L	L
A3<B3	X	X	X	X	X	X	L	H	L
A3=B3	A2>B2	X	X	X	X	X	H	L	L
A3=B3	A2<B2	X	X	X	X	X	L	H	L
A3=B3	A2=B2	A1>B1	X	X	X	X	H	L	L
A3=B3	A2=B2	A1<B1	X	X	X	X	L	H	L
A3=B3	A2=B2	A1=B1	A0>B0	X	X	X	H	L	L
A3=B3	A2=B2	A1=B1	A0<B0	X	X	X	L	H	L
A3=B3	A2=B2	A1=B1	A0=B0	H	L	L	H	L	L
A3=B3	A2=B2	A1=B1	A0=B0	L	H	L	L	H	L
A3=B3	A2=B2	A1=B1	A0=B0	L	L	H	L	L	H

H = High Level, L = Low Level, X = Don't Care

PIN CONNECTION



RS 7486
276-1827

QUAD EXCLUSIVE-OR GATE

GENERAL DESCRIPTION

The 7486 utilizes TTL (Transistor-Transistor Logic) to provide four exclusive-OR gates in one package. Characteristics of the circuits include high noise immunity, low output impedance, good capacitive drive capability, and minimal variation in switching times with temperature.

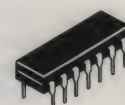
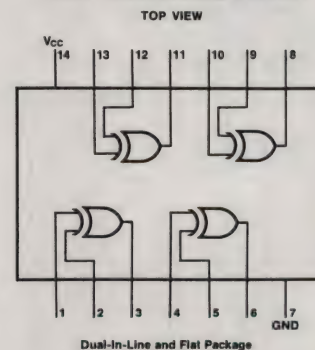
FEATURES

- Input clamp diodes
- Typical noise immunity 1V
- Average propagation delay 15 ns
- Average power dissipation 40 mW per gate

ABSOLUTE MAXIMUM RATINGS

V_{CC} 7.0V
Input Voltage..... 5.5V
Operating Temperature Range..... 0°C to 70°C
Storage Temperature Range..... -65°C to +150°C
Fan Out 10
Lead Temperature (Soldering, 10 sec)..... 300°C

PIN CONNECTION



DIVIDE BY 2/5, BCD COUNTER

RS^o7490
 276-1808

GENERAL DESCRIPTION

This monolithic counter contains four master-slave flip-flops and additional gating to provide a divide-by-two counter and a three-stage binary counter for which the count cycle length is divide-by-five.

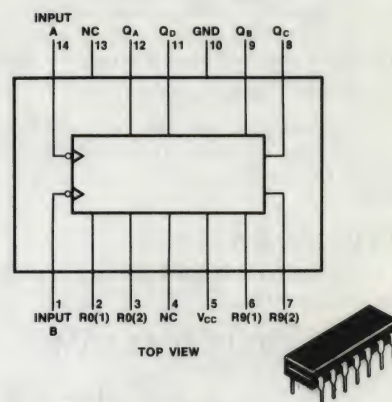
This counter has a gated zero reset and gated set-to-nine inputs for use in BCD nine's complement applications.

To use maximum count length (decade, divide-by-twelve, or four-bit binary, the B input is connected to the Q_A output. The input count pulses are applied to input A and the outputs are as described in the appropriate truth table. A symmetrical divide-by-ten count can be obtained from the 90 counter by connecting the Q_D output to the A input and applying the input count to the B input which gives a divide-by-ten square wave at output Q_A .

TYPICAL RATINGS

Typical power dissipation..... 145 mW
 Count frequency..... 42 MHz

PIN CONNECTION



TRUTH TABLES

RESET/COUNT TRUTH TABLE

RESET INPUTS				OUTPUT			
R0(1)	R0(2)	R9(1)	R9(2)	Q_D	Q_C	Q_B	Q_A
H	H	L	X	L	L	L	L
H	H	X	L	L	L	L	L
X	X	H	H	H	L	L	H
X	L	X	L	COUNT			
L	X	L	X	COUNT			
L	X	X	L	COUNT			
X	L	L	X	COUNT			

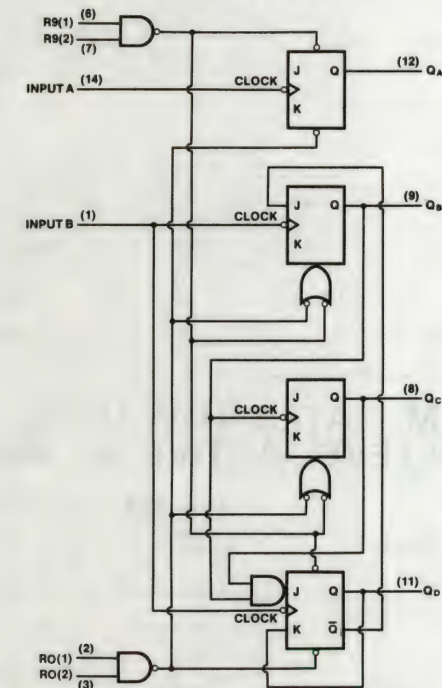
 BCD COUNT SEQUENCE
 (See Note A)

COUNT	OUTPUT			
	Q_D	Q_C	Q_B	Q_A
0	L	L	L	L
1	L	L	L	H
2	L	L	H	L
3	L	L	H	H
4	L	H	L	L
5	L	H	L	H
6	L	H	H	L
7	L	H	H	H
8	H	L	L	L
9	H	L	L	H

 BI-QUINARY (5-2)
 (See Note B)

COUNT	OUTPUT			
	Q_A	Q_D	Q_C	Q_B
0	L	L	L	L
1	L	L	L	H
2	L	L	H	L
3	L	L	H	H
4	L	H	L	L
5	H	L	L	L
6	H	L	L	H
7	H	L	H	L
8	H	L	H	H
9	H	H	L	L

LOGIC DIAGRAM



The J and K inputs shown without connection are for reference only and are functionally at a high level.

Notes:

- (A) Output Q_A is connected to input B for BCD count.
 (B) Output Q_D is connected to input A for bi-quinary count.

RS 7492
276-1819

DECADE, DIVIDE BY 12, AND BINARY COUNTER

GENERAL DESCRIPTION

This monolithic counter contains four master-slave flip flops and additional gating to provide a divide-by-two counter and a three-stage binary counter for which the count cycle length is divide by six.

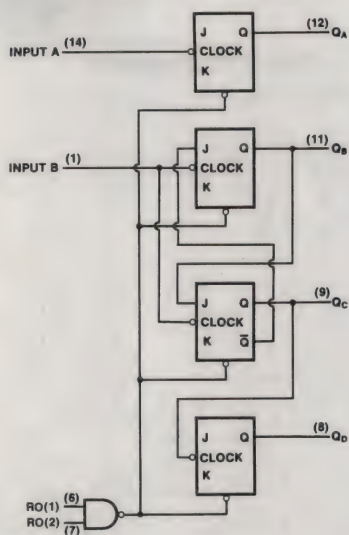
This counter has a gated zero reset.

To use maximum count length (decade, divide-by-twelve, or four-bit binary), the B input is connected to the Q_A output. The input count pulses are applied to input A and the outputs are as described in the appropriate truth table.

TYPICAL RATINGS

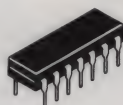
Typical power dissipation 130 mW
Count frequency 42 MHz

LOGIC DIAGRAM

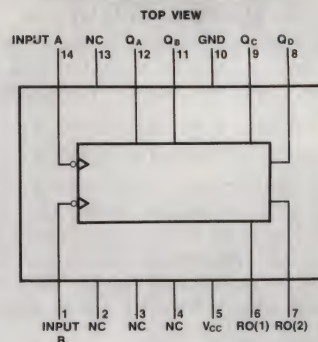


The J and K inputs shown without connection are for reference only and are functionally at a high level.

(A) Output Q_A is connected to input B.



PIN CONNECTION



TRUTH TABLES

COUNT SEQUENCE (See Note A)

COUNT	OUTPUT			
	Q_D	Q_C	Q_B	Q_A
0	L	L	L	L
1	L	L	L	H
2	L	L	H	L
3	L	L	H	H
4	L	H	L	L
5	L	H	L	H
6	H	L	L	L
7	H	L	L	H
8	H	L	H	L
9	H	L	H	H
10	H	H	L	L
11	H	H	L	H

RESET/COUNT TRUTH TABLE

RESET INPUTS		OUTPUT			
RO(1)	RO(2)	Q_D	Q_C	Q_B	Q_A
H	H	L	L	L	L
L	X	COUNT			
X	L	COUNT			

RS 74123
276-1817

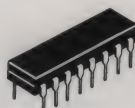
DC TRIGGERING FROM GATED LOW-LEVEL-ACTIVE (A) AND HIGH-LEVEL-ACTIVE (B) INPUTS

GENERAL DESCRIPTION

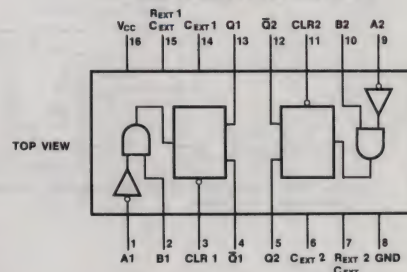
Designed for dc triggering from gated low-level-active (A) and high-level-active (B) inputs. Provides overriding direct clear inputs and controls pulse width, e.g. lengthens pulse by retriggering or shortens by clearing.

ABSOLUTE MAXIMUM RATINGS

Supply voltage V_{CC} 4.75-5.25 volts
Logic 1 input voltage Min. 2 volts
Logic 0 input voltage Max. 0.88 volts
Logic 1 output voltage Min. 2.4 volts
Logic 0 output voltage Max. 0.4 volts
A or B inputs high Min. 40 ns
A or B inputs low Min. 40 ns
Clear low Min. 40 ns



PIN CONNECTION



TRUTH TABLE

INPUTS			OUTPUTS	
A	B	CLR	Q	\bar{Q}
H	X	H	L	H
X	L	H	L	H
L	↑	H	⌋	⌋
↓	H	H	⌋	⌋
X	X	L	L	H

BCD/DECIMAL DECODERS/DRIVERS

RS 74145
 276-1828

GENERAL DESCRIPTION

These BCD-to-decimal decoders/drivers consist of eight inverters and ten, four-input NAND gates. The inverters are connected in pairs to make BCD input data available for decoding by the NAND gates. Full decoding of BCD input logic ensures that all outputs remain off for all invalid (10-15) binary input conditions. These decoders feature high-performance, NPN output transistors designed for use as indicator/relay drivers, or as open-collector logic-circuit drivers. The high-breakdown output transistors are compatible for interfacing with most MOS integrated circuits.

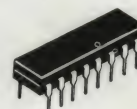
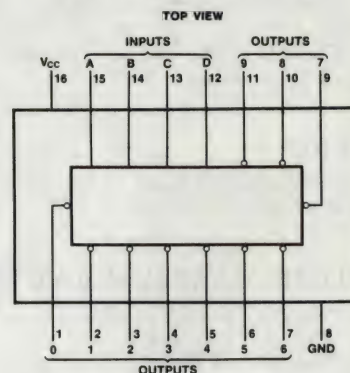
FEATURES

- Full decoding of input logic
- 80 mA sink-current capability
- All outputs are off for invalid BCD input conditions

ABSOLUTE MAXIMUM RATINGS

Supply Voltage.....	7V
Input Voltage.....	5.5V
Output Voltage.....	15V
Operating Temperature Range.....	0°C to +70°C
Storage Temperature Range.....	-65°C to +150°C
Lead Temperature (Soldering, 10 sec).....	300°C
Supply Voltage (V_{CC}).....	4.75—5.25V

PIN CONNECTION

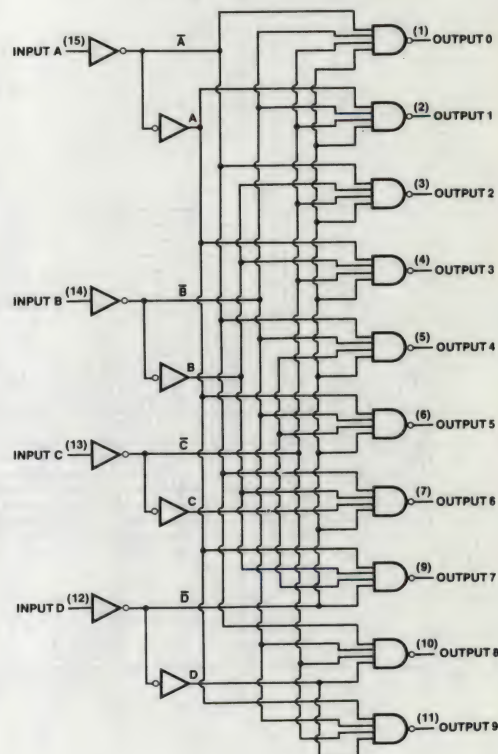


TRUTH TABLE

NO.	INPUTS				OUTPUTS									
	D	C	B	A	0	1	2	3	4	5	6	7	8	9
0	L	L	L	L	L	H	H	H	H	H	H	H	H	H
1	L	L	L	H	H	L	H	H	H	H	H	H	H	H
2	L	L	H	L	H	H	L	H	H	H	H	H	H	H
3	L	L	H	H	H	H	H	L	H	H	H	H	H	H
4	L	H	L	L	H	H	H	H	L	H	H	H	H	H
5	L	H	L	H	H	H	H	H	H	L	H	H	H	H
6	L	H	H	L	H	H	H	H	H	H	L	H	H	H
7	L	H	H	H	H	H	H	H	H	H	H	L	H	H
8	H	L	L	L	H	H	H	H	H	H	H	H	L	H
9	H	L	L	H	H	H	H	H	H	H	H	H	H	L
INVALID	H	L	H	L	H	H	H	H	H	H	H	H	H	H
	H	L	H	H	H	H	H	H	H	H	H	H	H	H
	H	H	L	L	H	H	H	H	H	H	H	H	H	H
	H	H	L	H	H	H	H	H	H	H	H	H	H	H
	H	H	H	L	H	H	H	H	H	H	H	H	H	H

H = High Level (Off), L = Low Level (On)

LOGIC DIAGRAM



RS 74150
276-1829

16-LINE TO 1-LINE MULTIPLEXER

GENERAL DESCRIPTION

The 74150 multiplexes sixteen digital lines to one output. A four-bit code determines the particular one-of-sixteen inputs which is routed to the output. The data is inverted from input to output. A strobe override places the output in the logical 1 state.

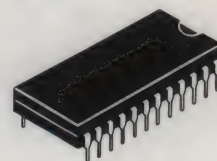
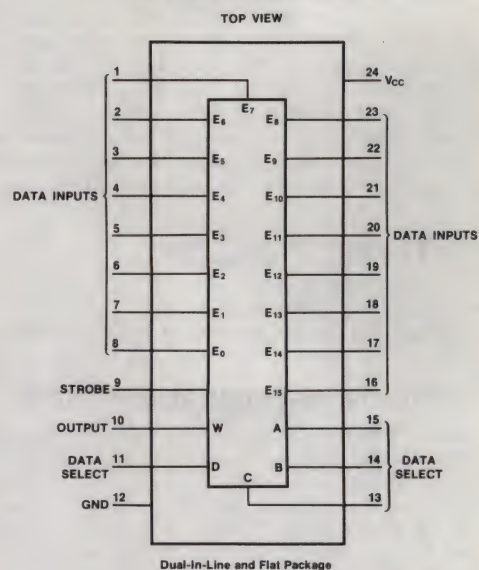
FEATURES

- Typical propagation delay 10 ns
- Typical power dissipation 225 mW

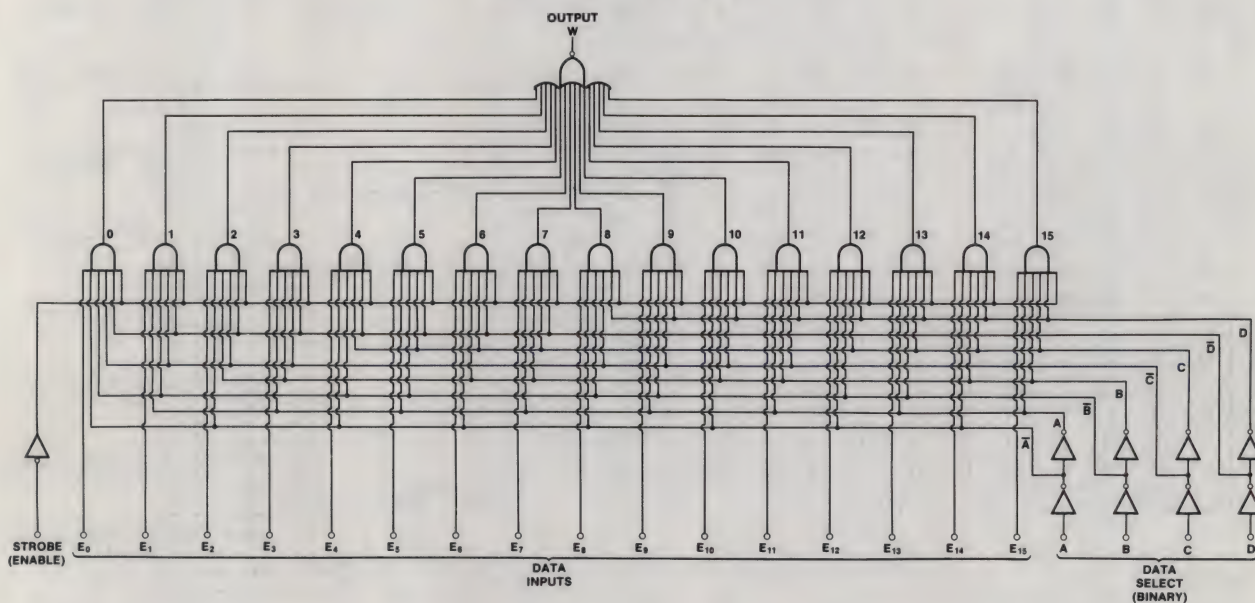
ABSOLUTE MAXIMUM RATINGS

Supply Voltage..... 7V
Input Voltage..... 5.5V
Storage Temperature Range -65°C to +150°C
Lead Temperature (Soldering, 10 sec)..... 300°C
Supply Voltage (V_{CC})..... 4.75–5.25V
Temperature (T_A)..... 0°C to 70°C

PIN CONNECTION



LOGIC DIAGRAM



4-LINE TO 16-LINE DECODER/DEMULTIPLEXER

RS 74154
 276-1834

GENERAL DESCRIPTION

The 74154 is a TTL monolithic 4-line-to-16-line decoder which allows decoding of a 4 bit binary coded input into one of 16 separate outputs. The device is provided with two strobe lines, both of which have to be in the low state in order to perform the decoding function; if either of the strobes is high, all 16 outputs will remain high. The device can be used as a demultiplexer by passing information from one of the strobes (the other being low) to an output selected by the 4 line input address.

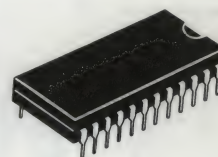
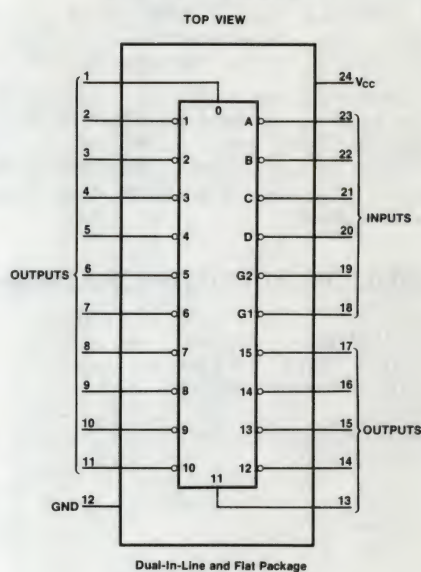
FEATURES

- All inputs contain clamp diodes
- Unit performs as a one line to 16 line demultiplexer
- Unit performs as a decoder of a 4 bit binary input to 1 or 16 outputs
- Typical propagation delay is 20 ns from inputs and 17 ns from strobe

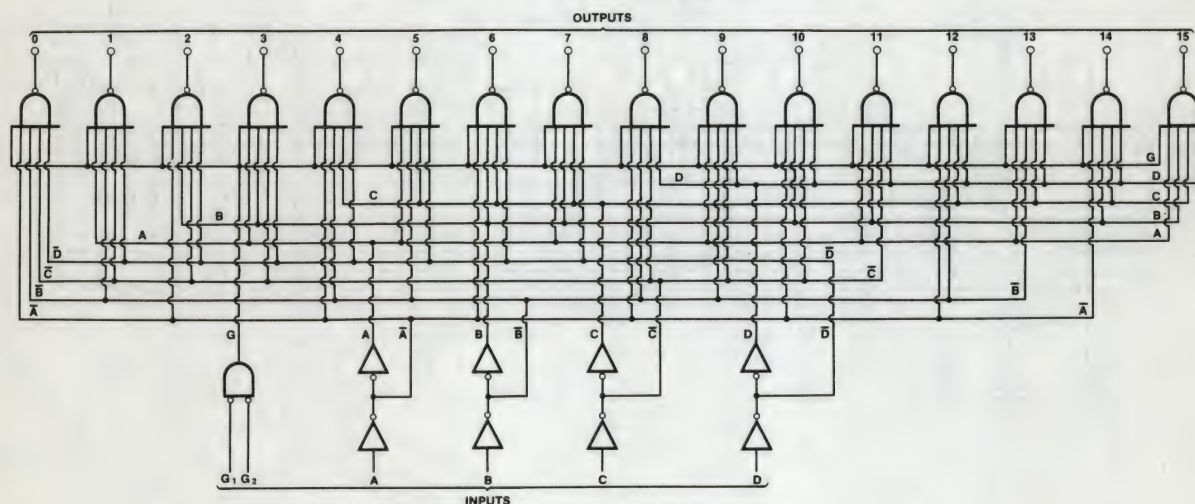
ABSOLUTE MAXIMUM RATINGS

V_{CC}	7.0V
Input Voltage.....	5.5V
Operating Temperature Range.....	0°C to 75°C
Storage Temperature Range.....	-65°C to +150°C
Lead Temperature (Soldering, 10 sec).....	300°C

PIN CONNECTION



LOGIC DIAGRAM



RS 74192
276-1831

UP/DOWN DECADE COUNTER

GENERAL DESCRIPTION

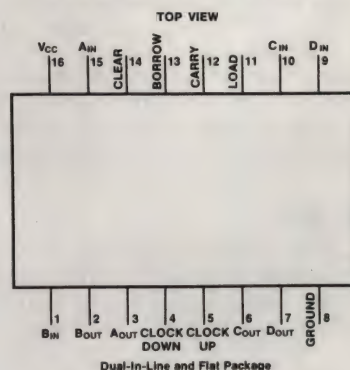
The 74192 is a TTL, up-down decade counter which is capable of being preset to any number from 0 through 9. A load input controls the asynchronous entry of these numbers, and sets all outputs to appropriate state.

Counting is performed through two clock lines—one controlling the count in the up direction, and the other in the down direction. Two outputs, Borrow and Carry, are connected to the clock inputs of subsequent counters to provide for counting to numbers greater than 9. The counter is synchronous by itself, and "semi-synchronous" (two-gate delays between stages) when cascaded.

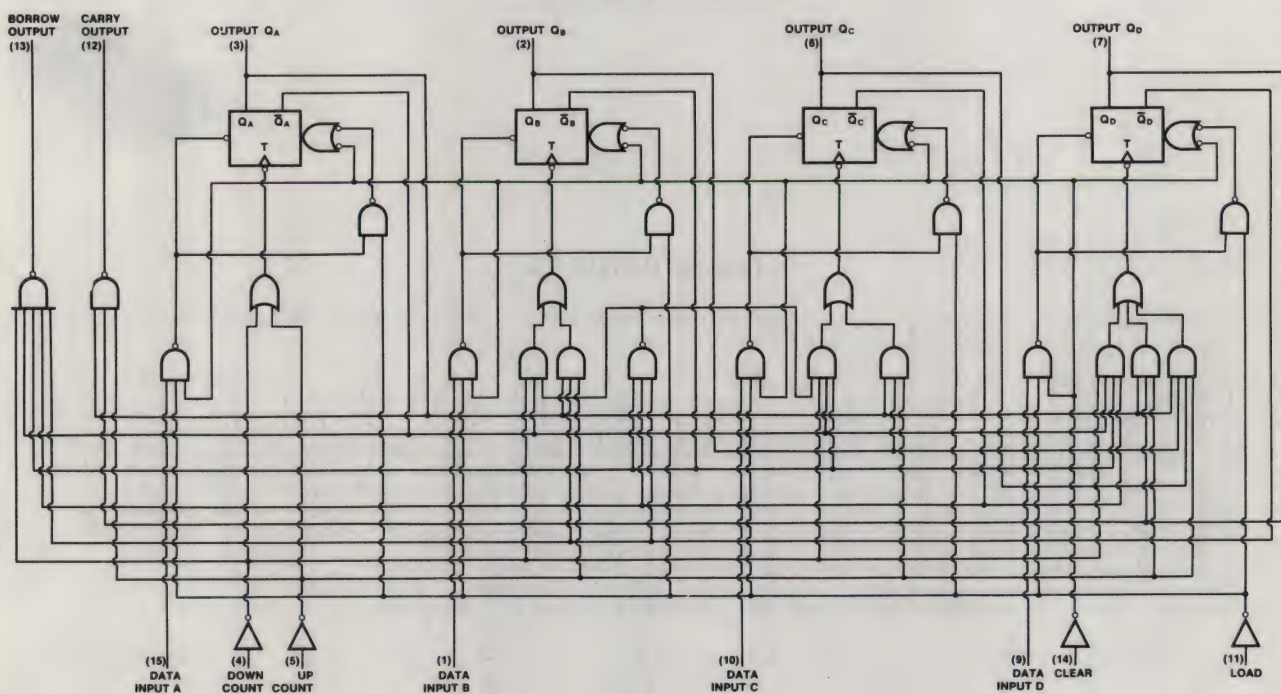
ABSOLUTE MAXIMUM RATINGS

V_{CC}	7.0V
Input Voltage.....	5.5V
Operating Temperature Range.....	0°C to +70°C
Storage Temperature Range.....	-65°C to +150°C
Fanout.....	10
Lead Temperature (Soldering, 10 sec).....	300°C

PIN CONNECTION



LOGIC DIAGRAM



SYNCHRONOUS UP/DOWN COUNTER WITH DUAL CLOCK

RS 74193
276-1820

GENERAL DESCRIPTION

The 74193 is a 4-bit binary counter. Synchronous operation is provided by having all flip-flops clocked simultaneously, so that the outputs change together when so instructed by the steering logic. This mode of operation eliminates the output counting spikes normally associated with asynchronous (ripple-clock) counters.

The outputs of the four master-slave flip-flops are triggered by a low-to-high level transition of either count (clock) input. The direction of counting is determined by which count input is pulsed, while the other count input is held high.

All four counters are fully programmable; that is, each output may be preset to either level by entering the desired data at the inputs while the load input is low. The output will change independently of the count pulses. This feature allows the counters to be used as modulo-N dividers by simply modifying the count length with the preset inputs.

A clear input has been provided which, when taken to a high level, forces all outputs to the low level; independent of the count and load inputs. The clear, count, and load inputs are buffered to lower the drive requirements of clock drivers, etc., required for long words.

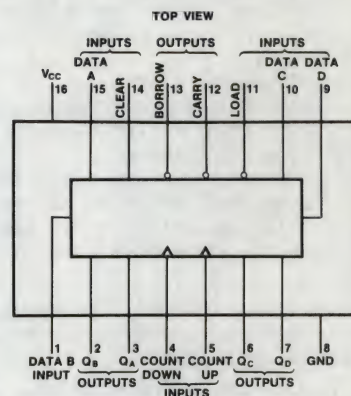
FEATURES

- Fully independent clear input
- Cascading circuitry provided internally
- Synchronous operation
- Individual preset each flip-flop

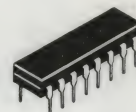
ABSOLUTE MAXIMUM RATINGS

Supply voltage V_{CC}	4.75—5.25V (MIN-MAX)
Normalized fan-out from each output, N	10 (MAX)
Input count frequency, f count	0—25 MHz (MIN-MAX)
Width of any input pulse, t_w	20 ns (MIN)
Data setup time, t_{setup}	20 ns (MIN)
Data hold time, t_{hold}	0 ns (MIN)
Operating free-air temperature range, T_a	0—70°C (MIN-MAX)

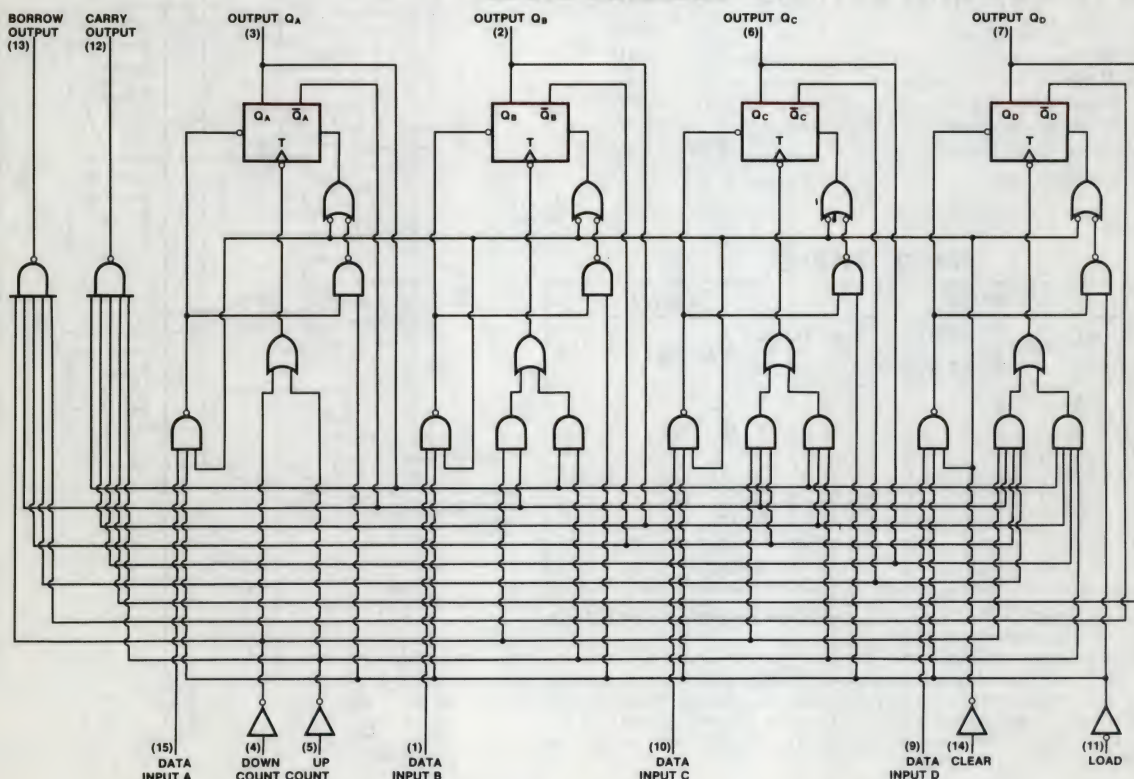
PIN CONNECTION



Note: Low input to load sets $Q_A = A$, $Q_B = B$, $Q_C = C$, and $Q_D = D$.



LOGIC DIAGRAM



COMPLETE DATA AND SPECIFICATIONS SUPPLIED WITH EACH DEVICE

RS 74194
276-1832

FOUR-BIT BIDIRECTIONAL UNIVERSAL SHIFT REGISTERS

GENERAL DESCRIPTION

The 74194 is a bidirectional shift register designed to incorporate virtually all of the features a system designer may want in a shift register. The circuit contains 46 equivalent gates and features parallel inputs, parallel outputs, right-shift and left-shift serial inputs, operating mode control inputs, and a direct overriding clear line. The register has four distinct modes of operation, namely:

- Parallel (Broadside) Load
- Shift Right (In the direction Q_A toward Q_D)
- Shift Left (In the direction Q_D toward Q_A)
- Inhibit Clock (Do nothing)

Synchronous parallel loading is accomplished by applying the four bits of data and taking both mode control inputs, S_0 and S_1 , high. The data is loaded into the associated flip-flop and appears at the outputs after the positive transition of the clock input. During loading, serial data flow is inhibited.

Shift right is accomplished synchronously with the rising edge of the clock pulse when S_0 is high and S_1 is low. Serial data for this mode is entered at the shift-left serial input.

Clocking of the flip-flop is inhibited when both mode control inputs are low. The mode controls should be changed only while the clock input is high.

FEATURES

- Typical power dissipation 195 mW
- Typical clock frequency 36 MHz (max)
- Parallel inputs and outputs
- Four operating modes:
 - Synchronous parallel load
 - Right shift
 - Left shift
 - Do nothing
- Positive edge-triggered clocking
- Direct overriding clear

ABSOLUTE MAXIMUM RATINGS

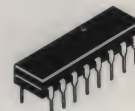
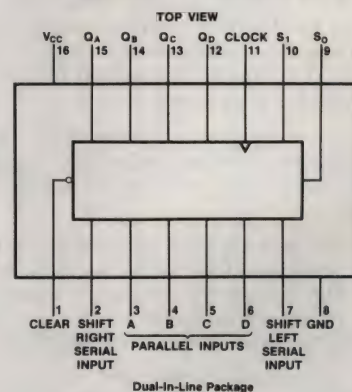
Supply Voltage, V_{CC}	7.0V
Input Voltage	5.5V
Output Voltage	5.5V
Storage Temperature Range	-65°C to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C
Supply Voltage (V_{CC})	4.75—5.25V
Temperature (T_A)	0°C to 70°C

TRUTH TABLE

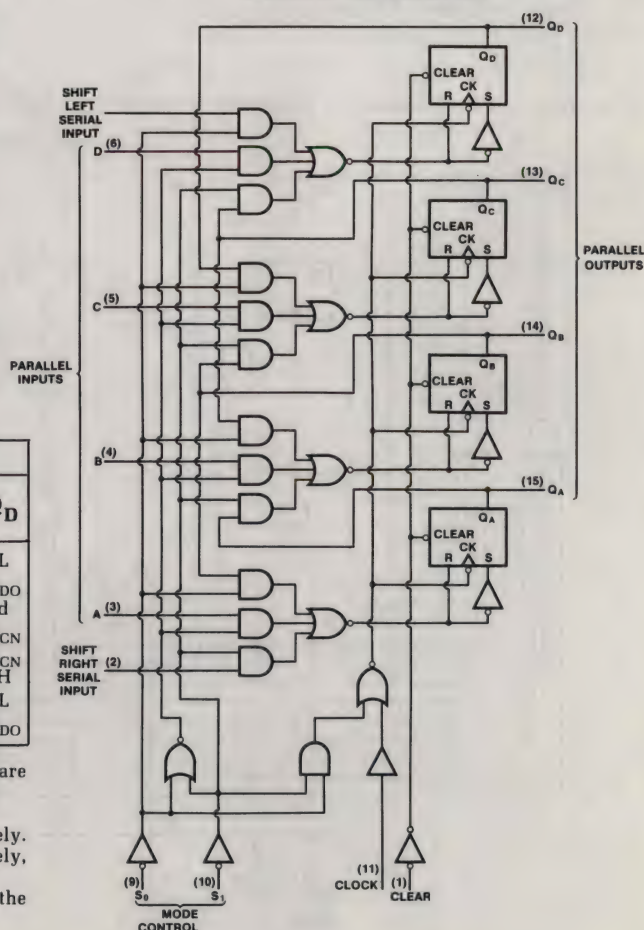
INPUTS					OUTPUTS							
CLEAR	MODE S1 S0	CLOCK	SERIAL		PARALLEL				Q _A	Q _B	Q _C	Q _D
			LEFT	RIGHT	A	B	C	D				
L	X X	X	X	X	X	X	X	X	L	L	L	L
H	X X	L	X	X	X	X	X	X	Q _{AO}	Q _{BO}	Q _{CO}	Q _{DO}
H	H H	↑	X	X	a	b	c	d	a	b	c	d
H	L H	↑	X	H	X	X	X	X	H	Q _{AN}	Q _{BN}	Q _{CN}
H	H L	↑	X	L	X	X	X	X	L	Q _{AN}	Q _{BN}	Q _{CN}
H	L L	↑	H	X	X	X	X	X	Q _{BN}	Q _{CN}	Q _{DN}	H
H	H L	↑	L	X	X	X	X	X	Q _{BN}	Q _{CN}	Q _{DN}	L
H	L L	X	X	X	X	X	X	X	Q _{AO}	Q _{BO}	Q _{CO}	Q _{DO}

H = High Level (steady state), L = Low Level (steady state), X = Don't Care (any input, including transitions)
 ↑ = Transition from low to high level
 a, b, c, d = The level of steady state input at inputs A, B, C, or D, respectively.
 Q_{AO} , Q_{BO} , Q_{CO} , Q_{DO} = The level of Q_A , Q_B , Q_C , or Q_D , respectively, before the indicated steady state input conditions were established.
 Q_{AN} , Q_{BN} , Q_{CN} , Q_{DN} = The level of Q_A , Q_B , Q_C , respectively, before the most recent ↑ transition of the clock.

PIN CONNECTION



LOGIC DIAGRAM



40 MHz PRESETTABLE DECADE AND BINARY COUNTERS/LATCHES

RS 74196
 276-1833

GENERAL DESCRIPTION

These high-speed monolithic counters consist of four dc coupled master/slave flip-flops which are internally interconnected to provide either a divide-by-two and a divide-by-five counter. These counters are fully programmable; that is, the outputs may be preset to any state by placing a low on the count/load input and entering the desired data at the data inputs. The outputs will change to agree with the data inputs independent of the state of the clocks.

These counters may also be used as 4-bit latches by using the count/load input as the strobe and entering data at the data inputs. The outputs will directly follow the data inputs when the count/load is low, but will remain unchanged when the count/load is high and the clock inputs are inactive.

These high-speed counters will accept count frequencies of 0 to 40 MHz at the clock 1 input and 0 to 20 MHz at the clock 2 input. During the count operation, transfer of information to the outputs occurs on the negative-going edge of the clock pulse. The counters feature a direct clear which when taken low sets all outputs low regardless of the states of the clocks.

All inputs are diode-clamped to minimize transmission line effects and simplify system design. The circuits are compatible with most TTL and DTL logic families. Typical power dissipation is 150 mW.

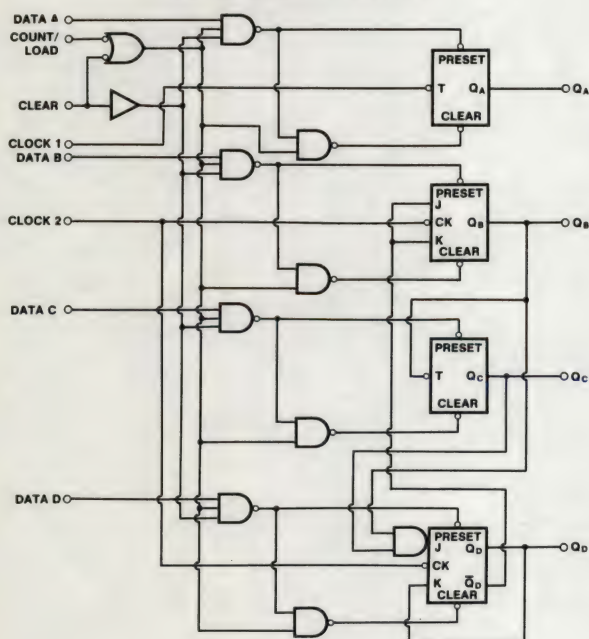
FEATURES

- Performs BCD, bi-quinary, or binary counting
- Fully independent clear input
- Guaranteed to count at input frequencies from 0 to 40 MHz
- Input clamping diodes simplify system design

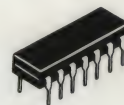
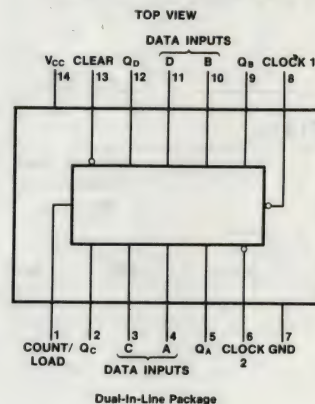
ABSOLUTE MAXIMUM RATINGS

Supply Voltage, V_{CC}	7.0V
Input Voltage	5.5V
Interemitter Voltage	5.5V
Storage Temperature Range	-65°C to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C
Supply Voltage (V_{CC})	4.75—5.25V
Temperature (T_A)	0°C to 70°C

LOGIC DIAGRAM



PIN CONNECTION



TRUTH TABLES

DECADE (BCD)
74196 (Note A)

COUNT	OUTPUT			
	Q_D	Q_C	Q_B	Q_A
0	L	L	L	L
1	L	L	L	H
2	L	L	H	L
3	L	L	H	H
4	L	H	L	L
5	L	H	L	H
6	L	H	H	L
7	L	H	H	H
8	H	L	L	L
9	H	L	L	H

BI-QUINARY (5-2)
74196 (Note B)

COUNT	OUTPUT			
	Q_A	Q_D	Q_C	Q_B
0	L	L	L	L
1	L	L	L	H
2	L	L	H	L
3	L	L	H	H
4	L	H	L	L
5	H	L	L	L
6	H	L	L	H
7	H	L	H	L
8	H	L	H	H
9	H	H	L	L

Note A: Output Q_A connected to clock 2 input.

Note B: Output Q_D connected to clock 1 input.

SPECIAL PURPOSE DEVICES

SCR'S

Radio Shack Number	I _{max} A	V _{max} V	I _{GT} (max) mA	V _{GT} (max) V	Case Style
276-1079	4	30	.20	.80	MU114
276-1089	6	50	25	1.5	MU27
276-1059	1	100	.35	1.2	TO92
276-1090	6	100	25	1.5	MU27
276-1067	6	200	25	1.5	MU27
276-1020	6	400	25	1.5	MU27

TRIAC'S

Radio Shack Number	I _{max} A	V _{max} V	I _{GT} (max) mA	V _{GT} (max) V	Case Style
276-1003	6	50	50	2.5	MU27
276-1002	6	100	50	2.5	MU27
276-1001	6	200	50	2.5	TO220AB
276-1000	6	400	50	2.5	MU27

DIAC

Radio Shack Number	Breakover Voltage (Forward and Reverse) V _{bo} volts		Breakover Voltage Symmetry V _{bo} (1+V _{bo} 1 1 V _{bo} 1) Max Volts	Breakback Voltage Change (Forward and Reverse) V _{bb} Current = 6 ma Typ Min		Peak Breakover Current at Breakover Voltage I _{bo} μa	Color Band or Dot Identification
	Min	Max					
276-1050	30	40	2	4	3	50	Orange

IMPORTANT SUGGESTIONS ON THE USE AND REPLACEMENT OF TRANSISTORS

You can use various styles and sizes of transistors in any given circuit application, as long as the electrical characteristics of the device are within the required range of operation. Thus, a tab-type device can be used to replace a TO-3 or TO-66 case device; or a small epoxy-type device can be used in place of TO-5 or other size transistor.

Generally speaking, you must observe the following maximum characteristics of a transistor when contemplating substitution or selection:

- Power dissipation
- Maximum collector current
- Maximum collector-to-emitter voltage
- Maximum collector-to-base voltage
- Maximum emitter-to-base voltage

Also, it is useful to consider the following characteristics for actual circuit operation:

- Gain
- Frequency limitations

Caution: It may be necessary in some cases to adjust bias values to achieve required operation. With tuned circuits, it is a good practice to check alignment after replacing any transistor.

When replacing power transistors, always check driver devices to be sure they are OK. Also, check other circuit components to be sure they were not shorted (or otherwise defective) when the original device failed. If you fail to correct such problems before applying power to the circuit once again, the replacement transistor could easily be permanently damaged. Be sure to use proper heat-sink precautions and use silicon grease to reduce the thermal resistance between the case of the transistor and the heat-sink.

Always observe temperature limitations as specified with transistor ratings.

It almost goes without saying, but let us remind you anyway—

Always observe voltage polarity with all semiconductor devices.

CROSS-REFERENCE/SUBSTITUTION LISTING

Most users of semiconductors realize that it is almost impossible to guarantee absolute equivalents (as in the case of tubes). Thus, the only way to create replacement or cross-reference listings is by carefully evaluating each characteristic of both devices (original transistor and the possible alternate). This is how the Technical Staff of Radio Shack went about preparing the following cross-reference/replacement lists.

IMPORTANT NOTE

We caution you that in many cases the listed cross reference ARCHER device may be different in appearance, size or mounting style. Thus, before beginning replacement or installation procedures, check to be sure you have enough room for proper mounting.

Also, when making substitutions or replacements in radio or high frequency circuitry, it may be necessary to realign tunable circuit elements.

This is true even when making **exact** replacements (junction capacitances normally vary between devices even from the same production run).

Information contained in this guide is based on the latest available data and is believed to be accurate. Every care has been taken to assure technical accuracy. However, Radio Shack does not assume responsibility for any contingencies of the use of this information. Nor does Radio Shack assume any responsibility for any infringements of patents or other rights of third parties which may result from its use.

When you are looking for a specific number and it does not show up in the following listing—refer to the technical data provided for our line of ARCHER devices. With this information you probably will be able to make a suitable substitution.

ARCHER SEMICONDUCTOR REPLACEMENT GUIDE

DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-
0000000MV4	1144	002-008500	2030	07-1075-01	2007	09-302068	2038	09-305139	2009	09-306266	1144
0000001N60	1102	002-008600	2007	07-1077-02	2005	09-302072	2011	09-308002	1102	09-306270	1102
00000010D1	1139	002-008300	2009	07-2012-04	2004	09-302074	2014	09-308009	1102	09-306276	1144
0000000DS38	1139	002-009500	2009	07-3012-04	2004	09-302075	2009	09-306010	1102	09-306283	1144
000000SD1Y	1139	002-009501	2030	07-3015-05	2004	09-302078	2009	09-306012	1102	09-306285	1139
000001S188	1102	002-009502	2030	07-4235-73	2003	09-302079	2015	09-306019	1102	09-306287	562
000001S334	562	002-009600	2011	07-07124	2009	09-302081	2038	09-306020	1102	09-306288	1144
000001S990	1144	002-009601	2015	07-07125	2009	09-302082	2038	09-306024	1102	09-306290	1102
0000010DC1	1104	002-009800	2025	07-07139	2014	09-302083	2019	09-306030	1139	09-306300	1139
00000DS18	1139	002-009900	2009	07-07156	2009	09-302085	2014	09-306036	1102	09-306302	1139
00000WZ090	562	002-010100	2006	07-07158	2028	09-302086	2014	09-306037	1102	09-306303	1139
00001S446D	1102	002-010300	2021	07-07159	2035	09-302090	2030	09-306039	1102	09-306309	1144
00001S1210	1144	002-010400	2009	07-07165	2019	09-302092	2011	09-306040	1102	09-306311	1139
00001S1555	1144	002-010500	2023	07-07166	2014	09-302093	2014	09-306042	1136	09-306312	1139
00001S2076	1144	002-010600	2030	08-08111	1102	09-302095	2015	09-306049	1102	09-306313	1144
00002SA50	2003	002-010700	2021	08-08112	1102	09-302097	2014	09-306050	1139	09-306315	1139
00002SA101	2005	002-010800	2030	08-08119	1144	09-302099	2008	09-306051	1102	09-306323	1139
00002SA550	2023	002-010900	2021	08-08125	562	09-302101	2009	09-306054	1139	09-306326	1144
00002SA564	2021	002-011400	2011	08-302152	2015	09-302106	2009	09-306057	1102	09-306327	562
00002SB185	2007	002-011500	2011	08A159-007	1144	09-302107	2009	09-306060	1144	09-306330	1102
00002SB187	2006	002-011600	2007	09-30027	2005	09-302115	2011	09-306061	1102	09-306332	562
00002SB405	2006	002-011700	2002	09-033006	2001	09-302116	2030	09-306062	1144	09-306333	1139
00002SB474	2006	002-011800	2007	09-300002	2007	09-302118	2009	09-306063	1139	09-306334	1102
00002SB481	2006	002-011900	2007	09-300005	2004	09-302119	2030	09-306073	561	09-306335	1136
00002SC373	2014	002-012000	2030	09-300006	2004	09-302121	2019	09-306077	1101	09-306336	1102
00002SC461	2011	002-012100	2025	09-300011	2007	09-302122	2041	09-306083	1139	09-306349	1102
00002SC536	2014	002-012200	2030	09-300012	2003	09-302124	2009	09-306088	1139	09-306350	1139
00002SC537	2009	002-012400	2019	09-300015	2003	09-302125	2014	09-306089	1101	09-306351	562
00002SC606	2015	002-012700	2008	09-300016	2003	09-302126	2009	09-306091	1102	09-306353	1139
00002SC609	2023	002-012800	2021	09-300017	2007	09-302127	2014	09-306093	1102	09-306367	564
00002SC644	2014	002-124600	2025	09-300024	2003	09-302130	2008	09-306100	1139	09-306368	1144
00002SC668	2011	002SC373	2011	09-300027	2005	09-302131	2030	09-306102	1114	09-306370	1102
00002SC735	2009	002SC1023	2011	09-300028	2005	09-302132	2019	09-306103	1139	09-306373	562
00002SC772	2015	002SC1209C	2030	09-300037	2023	09-302136	2019	09-306104	1139	09-306375	562
00002SC828	2014	002SC7350Y	2009	09-300059	2023	09-302138	2015	09-306107	1102	09-306382	562
00002SC829	2009	002SD235RY	2019	09-300061	2023	09-302139	2014	09-306108	1102	09-306389	1139
00002SC838	2011	003-00	2009	09-300062	2023	09-302140	2009	09-306110	1139	09-306390	1144
00002SC858	2011	003-01	2009	09-300063	2023	09-302141	2011	09-306111	1144	09-306391	563
00002SC829	2014	003-005400	1102	09-300074	2023	09-302142	2015	09-306112	1144	09-306392	1139
00002SC930	2014	003-006700	1102	09-300077	2023	09-302143	2015	09-306113	1139	09-306394	1139
00002SC945	2014	003-007500	1102	09-300078	2005	09-302144	2015	09-306114	1144	09-307039	1144
00002SC968	2018	003-009000	1102	09-300307	2023	09-302145	2009	09-306119	1139	09-307055	1144
000071090	2006	003-008100	564	09-301001	2003	09-302148	2009	09-306124	562	09-307080	1144
000071150	2023	003-009200	1102	09-301002	2004	09-302149	2011	09-306125	1139	09-308013	1738
000071151	2023	003-010000	563	09-301003	2003	09-302150	2008	09-306127	563	09-308019	1738
000072020	1139	004-00	2009	09-301004	2003	09-302151	2015	09-306129	1139	09-308072	2015
000072090	1102	004-002700	1139	09-301006	2004	09-302162	2011	09-306134	1144	09-309006	2011
000072150	562	004-002800	1139	09-301007	2004	09-302164	2019	09-306135	1102	09-309007	2011
000072160	1102	004-003300	1139	09-301008	2007	09-302165	2009	09-306138	1139	09-309012	2011
000072190	562	004-003500	1139	09-301009	2003	09-302171	2030	09-306148	1102	09-309013	2011
000073070	2014	004-003600	1139	09-301010	2006	09-302172	2015	09-306149	1139	09-309023	2009
000073080	2014	004-004000	1139	09-301012	2006	09-302175	2030	09-306154	1144	09-309024	2011
000073090	2009	004-009200	1102	09-301014	2006	09-302190	2011	09-306157	1139	09-309027	2011
000073100	2009	005-02	2009	09-301015	2006	09-302191	2011	09-306158	562	09-309028	2011
000073110	2030	006-02	2023	09-301016	2003	09-302194	2014	09-306159	1144	09-309032	2011
000073120	2016	0018	2009	09-301020	2005	09-302201	2015	09-306160	1139	09-309038	2023
000073130	2016	0036-001	2011	09-301022	2006	09-302202	2038	09-306161	1144	09-309042	2023
000073140	2014	001422	2009	09-301024	2006	09-302204	2015	09-306163	1144	09-309049	2009
000073230	2009	004746	2023	09-301026	2003	09-302212	2019	09-306165	562	09-309050	2009
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025-100013	2011	0124(HOFFMAN)	2017	0573228	2004	1E335B	2015	1N3194	1139	1S309	1139
025-100014	2011	0124(KNIGHT)	2034	0573335	2003	1FM2	1139	1N3195	1139	1S310	1139
025-100015	2030	0124(WARDS)	2018	0573366	2003	1G01	1102	1N3241	1139	1S311	1139
025-100016	1139	0125	2009	0573398	2003	1G2C1	1139	1N3600	1144	1S314	1139
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089-241	1144	0517826	1102</								

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DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-
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1S3016R	1139	2G1024	2004	2N104#	2007	2N169#	2001	2N232	2003	2N307B	2006
1S3585	1102	2G1025	2004	2N105	2007	2N169A	2002	2N233	2001	2N308	2005
1S4266	1102	2G1026	2005	2N106	2004	2N170	2001	2N233#	2001	2N309	2005
1S9413	1139	2G1027	2005	2N106#	2007	2N172	2001	2N233A	2001	2N310	2005
1S901-02	1139	2H1254	2022	2N107	2004	2N172#	2001	2N233A#	2001	2N311	2003
1S2367	1144	2H1255	2022	2N108	2005	2N173	2006	2N234	2006	2N312	2001
1S516	1101	2H1256	2022	2N109	2003	2N174	2006	2N234A	2006	2N313	2002
1T22	1102	2H1257	2022	2N109/5	2005	2N174A	2006	2N235	2006	2N314	2002
1T22A	1102	2H1258	2022	2N109(M1)	2007	2N175	2007	2N235A	2006	2N315	2004
1T22AJ	1102	2H1259	2022	2N109BLU	2007	2N176	2004	2N235B	2006	2N315A	2004
1T23	1102	2J72	2005	2N109GRN	2007	2N176-1BLU	2006	2N236	2006	2N315B	2003
1T23A	1102	2J73	2005	2N109WHT	2007	2N176-1WHT	2006	2N236A	2006	2N316	2003
1T23B	1102	2K48	2003	2N109YEL	2007	2N176-1YEL	2006	2N236B	2006	2N316A	2004
1T28	1102	2MNM6374	2011	2N111	2007	2N176-3PUR	2006	2N237	2005	2N317	2003
1T28-2	1102	2N22	2002	2N111(M1)	2005	2N176-4PUR	2006	2N238	2003	2N317A	2003
1T40	1144	2N27	2004	2N111(M2)	2005	2N176-5WHT	2006	2N238(D)	2003	2N319	2007
1T240A	1102	2N28	2002	2N111A	2007	2N176-6WHT	2006	2N238(E)	2003	2N320	2004
1T243	1144	2N29	2002	2N111B	2005	2N176A	2006	2N238(F)	2003	2N321	2005
1T243M	1144	2N32	2004	2N112	2005	2N176BLK	2006	2N238ORN	2007	2N322	2005
1T261	1102	2N33	2005	2N112(M1)	2005	2N176BLU	2006	2N240	2003	2N323	2005
1T262	1102	2N34	2005	2N112A	2004	2N176G	2006	2N241	2003	2N324	2007
1T263	563	2N34/5	2005	2N113	2005	2N176GRN	2006	2N241A	2005	2N325	2006
1T378	1139	2N34A	2005	2N114	2005	2N176PUR	2006	2N242	2006	2N327	2022
1T495	1139	2N35	2001	2N115	2007	2N176RED	2006	2N243	2012	2N327A	2022
1U585F	2009	2N35/5	2001	2N117	2011	2N176W	2006	2N244	2012	2N327B	2023
1V68611A47	2023	2N36	2004	2N117#	2013	2N176WHT	2006	2N245	2008	2N328	2022
1Z9.1	562	2N36#	2003	2N118	2011	2N178	2006	2N246	2008	2N328A	2022
2-0A90	1102	2N37	2004	2N118#	2013	2N179	2006	2N247	2005	2N328B	2023
2-90	1101	2N38	2004	2N118A	2011	2N180	2005	2N248	2003	2N329	2022
2A	2005	2N38#	2003	2N118A#	2013	2N180#	2007	2N249	2004	2N329A	2022
2A119	1136	2N38A	2004	2N119	2011	2N181	2005	2N250	2006	2N329B	2023
2AC128	2005	2N39	2005	2N119#	2013	2N182	2001	2N250A	2006	2N330	2022
2AD149	2006	2N40	2005	2N120	2011	2N182#	2001	2N251	2006	2N330A	2022
2AG	2011	2N40LGRY	2004	2N120#	2013	2N183	2001	2N251A	2006	2N331	2005
2B	2003	2N41	2005	2N123	2005	2N183#	2001	2N252	2014	2N332	2013
2B628	2006	2N42	2005	2N123/5	2005	2N185	2003	2N252#	2003	2N332A	2012
2C	2003	2N43	2005	2N123A	2005	2N185#	2007	2N253	2001	2N333	2013
2CY33	2022	2N43A	2005	2N124	2001	2N185BLU	2003	2N253#	2001	2N333A	2012
2CY34	2022	2N44	2004	2N124#	2001	2N186	2007	2N254	2001	2N334	2013
2CY38	2025	2N44A	2004	2N125	2001	2N186A	2004	2N254#	2001	2N334A	2012
2D	2003	2N45	2004	2N125#	2001	2N187	2007	2N255	2006	2N334B	2012
2E	2003	2N45A	2004	2N126	2001	2N187					

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DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-
2N337	2013	2N408	2004	2N497	2008	2N576	2001	2N672	2006	2N753	2016
2N337A	2009	2N408WHT	2004	2N497A	2008	2N576A	2001	2N674	2003	2N753/46	2009
2N338	2013	2N409	2003	2N498	2008	2N578	2004	2N675	2006	2N754	2012
2N338A	2009	2N410	2007	2N498A	2008	2N579	2004	2N677	2006	2N755	2012
2N339	2008	2N411	2003	2N499	2009	2N580	2004	2N677A	2006	2N756	2008
2N339A	2008	2N412	2003	2N499A	2005	2N581	2004	2N677B	2006	2N756A	2008
2N340	2008	2N413	2004	2N500	2003	2N582	2005	2N677C	2006	2N757	2008
2N340A	2008	2N413A	2004	2N500BLU	2003	2N583	2004	2N678	2006	2N757A	2008
2N341	2008	2N414	2003	2N500RED	2003	2N584	2005	2N678A	2006	2N758	2008
2N341A	2008	2N414A	2005	2N500WHT	2003	2N585	2001	2N678B	2006	2N758A	2008
2N342	2008	2N414B	2003	2N501	2003	2N585#	2001	2N678C	2006	2N758B	2008
2N342A	2008	2N414C	2003	2N501/18	2003	2N586	2005	2N679	2001	2N759	2008
2N342B	2012	2N415	2003	2N501A	2003	2N587	2001	2N680	2007	2N759A	2008
2N343	2008	2N415A	2003	2N502	2005	2N588	2003	2N694	2003	2N759B	2008
2N343A	2008	2N416	2003	2N502A	2005	2N588A	2003	2N695	2003	2N760	2008
2N343B	2008	2N417	2003	2N503	2003	2N589	2006	2N696	2012	2N760A	2008
2N344	2003	2N418	2006	2N504	2003	2N591	2005	2N696A	2012	2N760B	2008
2N345	2003	2N419	2006	2N505	2005	2N591/5	2005	2N697	2030	2N761	2009
2N346	2003	2N420	2006	2N506	2004	2N591(6M)	2003	2N697A	2008	2N762	2009
2N350	2006	2N420A	2006	2N507	2001	2N591A	2005	2N698	2012	2N768	2003
2N350A	2006	2N422	2005	2N508	2007	2N594	2001	2N699	2012	2N769	2003
2N351	2006	2N422A	2004	2N508A	2005	2N595	2001	2N699A	2008	2N770	2011
2N351A	2006	2N425	2004	2N515	2001	2N596	2001	2N699B	2008	2N771	2011
2N352	2006	2N426	2004	2N515#	2001	2N597	2005	2N700	2003	2N772	2011
2N353	2006	2N427	2004	2N516	2001	2N598	2005	2N700/18	2003	2N773	2011
2N354	2022	2N428	2004	2N516#	2001	2N599	2005	2N700A	2003	2N774	2011
2N355	2021	2N428A	2004	2N517	2001	2N602	2004	2N700A/18	2003	2N775	2011
2N356	2001	2N431	2009	2N517#	2001	2N602A	2004	2N701	2009	2N776	2011
2N356A	2001	2N432	2009	2N518	2005	2N603	2005	2N702	2016	2N777	2011
2N357	2001	2N433	2009	2N519	2004	2N603A	2005	2N703	2016	2N778	2011
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2N357A	2001	2N438A	2001	2N520	2005	2N604A	2005	2N705A	2003	2N779A	2003
2N358	2001	2N439	2001	2N520A	2005	2N605	2005	2N706	2016	2N779B	2003
2N358A	2001	2N439A	2001	2N521	2005	2N606	2005	2N706/46	2009	2N780	2008
2N359	2005	2N440	2001	2N521A	2005	2N607	2005	2N706/51	2015	2N781	2005
2N360	2005	2N441	2006	2N522	2005	2N608	2005	2N706A	2016	2N782	2003
2N361	2005	2N441BLU	2006	2N522A	2005	2N609	2005	2N706A/46	2011	2N783	2016
2N362	2004	2N442	2006	2N523	2005	2N610	2005	2N706A/51	2011	2N784	2016
2N362(B)	2003	2N443	2006	2N523A	2005	2N611	2004	2N706B	2016	2N784A	2009
2N363	2005	2N444	2001	2N524	2004	2N612	2004	2N706B/46	2009	2N784A/46	2016
2N364	2002	2N444#	2001	2N524A	2004	2N613	2004	2N706B/51	2011	2N784A/51	2016
2N365	2002	2N444A	2001	2N525	2004	2N614	2004	2N706C	2009	2N789	2013
2N366	2002	2N445	2001	2N525A	2004	2N615	2004	2N706C/46	2009	2N790	2013
2N367	2004	2N445#	2001	2N526	2005	2N616	2004	2N707	2016	2N791	2013
2N368	2004	2N445A	2001	2N526A	2004	2N617	2004	2N707A	2009	2N792	2013
2N368#	2007	2N446	2001	2N527	2005	2N618	2006	2N708	2011	2N793	2013
2N369	2007	2N446#	2001	2N527A	2005	2N619	2013	2N708/46	2009	2N794	2003
2N369#	2007	2N446A	2001	2N529	2004	2N620	2013	2N708/51	2016	2N795	2003
2N370	2003	2N447	2001	2N529/N	2001	2N621	2013	2N708A	2009	2N796	2003
2N370/33	2003	2N447#	2001	2N530	2004	2N622	2013	2N709	2038	2N797	2001
2N370A	2003	2N447A	2001	2N530/N	2001	2N624	2003	2N709/52	2009	2N799	2007
2N371	2003	2N447B	2001	2N531	2004	2N627	2006	2N709A	2009	2N800	2007
2N371/33	2003	2N448	2001	2N531/N	2001	2N629	2006	2N709A46	2009	2N801	2005
2N372	2003	2N448#	2001	2N532	2004	2N630	2006	2N709A/46	2009	2N803	2005
2N372/33	2003	2N449	2001	2N532/N	2001	2N631	2005	2N710	2003	2N805	2005
2N373	2003	2N450	2007	2N533	2004	2N632	2005	2N710A	2003	2N807	2005
2N374	2003	2N456	2006	2N533/N	2001	2N633	2003	2N711	2003	2N809	2005
2N375	2006	2N456A	2006	2N534	2003	2N633(B)	2003	2N711A	2003	2N811	2005
2N376	2006	2N456B	2006	2N535	2005	2N634	2001	2N711B	2003	2N813	2005
2N376A	2006	2N457	2006	2N535A	2005	2N634A	2001	2N715	2009	2N815	2001
2N377	2001	2N457A	2006	2N535B	2005	2N635	2001	2N716	2009	2N816	2001
2N377A	2001	2N457B	2006	2N536	2003	2N635A	2001	2N717	2009	2N817	2004
2N378	2006	2N458	2006	2N536#	2003	2N636	2001	2N718	2009	2N819	2004
2N379	2006	2N458A	2006	2N537	2003	2N636A	2001	2N718A	2009	2N821	2002
2N380	2006	2N458B	2006	2N539A	2006	2N637	2006	2N719	2012	2N822	2002
2N381	2005	2N459	2006	2N541	2011	2N637A	2006	2N719A	2012	2N823	2001
2N382	2005	2N460	2004	2N541A	2011	2N637B	2006	2N720	2008	2N824	2001
2N383	2005	2N461	2004	2N542	2013	2N638	2006	2N720A	2008	2N825	2005
2N384	2003	2N462	2005	2N542A	2013	2N638A	2006	2N721	2021	2N827	2003
2N384/33	2003	2N464	2004	2N543	2013	2N639	2006	2N721A	2021	2N828	2003
2N385	2001	2N465	2004	2N543A	2013	2N639A	2008	2N722	2023	2N828A	2003
2N385A	2001	2N466	2005	2N544	2003	2N639B	2006	2N722A	2021	2N829	2003
2N386	2006	2N467	2005	2N544/33	2003	2N640	2005	2N725	2003	2N834	2016
2N387	2006	2N468	2005	2N545	2012	2N641	2005	2N728	2034	2N834/46	2009
2N388	2002	2N470	2011	2N546	2012	2N642	2005	2N727	2034	2N834/51	2009
2N388A	2001	2N471	2013	2N547	2012	2N643	2004	2N728	2030	2N834A	2038
2N389A	2020	2N471A	2013	2N548	2012	2N644	2004	2N729	2030	2N835	2016
2N392	2006	2N472	2013	2N549	2012	2N645	2004	2N730	2008	2N835/46	2009
2N393	2003	2N472A	2013	2N550	2012	2N646	2002	2N731	2008	2N837	2006
2N394	2005	2N473	2011	2N551	2012	2N647	2001	2N734	2008	2N838	2003
2N394A	2005	2N474	2013	2N552	2012	2N648	2001	2N734A	2012	2N839	2013
2N395	2005	2N474A	2013	2N553	2006	2N650	2007	2N735	2008	2N840	2013
2N396	2005	2N475	2013	2N554	2006	2N650A	2005	2N735A	2008	2N841	2013
2N396A	2005	2N475A	2013	2N555	2006	2N651	2005	2N736	2008	2N841/46	2013
2N397	2007	2N476	2011	2N556	2001	2N651A	2005	2N738	2008	2N842	2013
2N399	2006	2N476A	2011	2N557	2001	2N652	2005	2N738A	2012	2N843	2013
2N400	2006	2N477	2013	2N558	2001	2N652A	2005	2N739	2008	2N844	2008
2N401	2006	2N478	2011	2N559	2003	2N653	2007	2N740	2008	2N845	2008
2N402	2004	2N479	2013	2N560	2012	2N654	2003	2N741	2003	2N846	2003
2N403	2004	2N479A	2013	2N561	2006	2N655	2003	2N741A	2003	2N846A	2003
2N404	2006	2N480	2013	2N563	2004	2N655GRN	2003	2N742	2009	2N846B	2003
2N404A	2021	2N480A	2013	2N564	2004	2N655RED	2003	2N742A	2012	2N849	2016
2N405	2004	2N481	2004	2N565	2005	2N656	2008	2N743	2016	2N850	2016
2N406	2004	2N482	2004	2N566	2007	2N656A	2012	2N743/46	2009	2N851	2016
2N406BLU	2004	2N483	2004	2N567	2002	2N657	2012	2N743A	2038	2N852	2016
2N406BRN	2004	2N483(6M)	2003	2N568	2005	2N657A	2012	2N744	2016	2N858	2022
2N406GRN	2004	2N483(B)	2003	2N569	2005	2N658	2022	2N744/46	2009	2N859	2022
2N406ORN	2004	2N484	2005	2N570	2005	2N659	2022	2N744A	2038	2N860	2022
2N406RED	2004	2N485	2004	2N571	2007	2N660	2005	2N745	2013	2N861	2022
2N407	2006	2N486	2003	2N572	2005	2N661	2005	2N746	2013	2N862	2022
2N407BLK	2004										

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DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-
2N866	2008	2N892	2006	2N1101	2001	2N1183	2008	2N1281	2007	2N1416	2005
2N867	2009	2N893	2007	2N1102	2001	2N1183A	2008	2N1282	2005	2N1417	2011
2N869	2023	2N894	2008	2N1102/5	2001	2N1184	2006	2N1284	2005	2N1418	2013
2N869A	2024	2N895	2024	2N1103	2013	2N1184A	2006	2N1285	2003	2N1419	2008
2N870	2008	2N895A	2024	2N1104	2013	2N1185	2005	2N1287	2004	2N1420	2008
2N871	2008	2N896	2024	2N1105	2012	2N1186	2004	2N1287A	2005	2N1420A	2008
2N902	2013	2N897	2009	2N1106	2012	2N1187	2005	2N1288	2002	2N1425	2003
2N903	2013	2N898	2020	2N1107	2003	2N1188	2005	2N1289	2002	2N1426	2003
2N904	2013	2N899	2020	2N1108	2003	2N1189	2005	2N1291	2006	2N1427	2003
2N905	2013	2N1000	2001	2N1108#	2003	2N1190	2005	2N1292	2006	2N1428	2021
2N906	2013	2N1005	2011	2N1108RED	2003	2N1191	2007	2N1293	2006	2N1429	2008
2N909	2009	2N1006	2011	2N1109	2003	2N1192	2003	2N1294	2006	2N1430	2006
2N910	2008	2N1007	2006	2N1109#	2003	2N1193	2003	2N1295	2006	2N1431	2001
2N911	2008	2N1008	2005	2N1110	2003	2N1194	2003	2N1296	2006	2N1432	2003
2N912	2012	2N1008A	2005	2N1110#	2003	2N1195	2005	2N1297	2006	2N1436	2006
2N913	2009	2N1008B	2005	2N1111	2003	2N1196	2021	2N1299	2001	2N1439	2043
2N914	2009	2N1009	2005	2N1111A	2003	2N1197	2021	2N1300	2005	2N1440	2043
2N914/46	2009	2N1010	2001	2N1111B	2003	2N1198	2001	2N1301	2005	2N1441	2023
2N914/51	2016	2N1010#	2001	2N1111RED	2003	2N1199	2016	2N1302	2001	2N1442	2023
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2N918/51	2011	2N1024	2022	2N1122	2003	2N1215	2005	2N1316	2005	2N1469	2022
2N919	2038	2N1025	2022	2N1122A	2003	2N1216	2005	2N1316A	2005	2N1469A	2025
2N920	2038	2N1026	2022	2N1124	2005	2N1217	2001	2N1317	2005	2N1470	2020
2N921	2038	2N1026A	2022	2N1125	2005	2N1217#	2001	2N1318	2005	2N1471	2005
2N922	2038	2N1027	2022	2N1126	2005	2N1218	2018	2N1319	2004	2N1472	2016
2N923	2022	2N1028	2021	2N1128#	2007	2N1219	2022	2N1335	2008	2N1473	2002
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2N927	2043	2N1029C	2006	2N1130#	2007	2N1223	2022	2N1339	2008	2N1478	2005
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2N929	2013	2N1030A	2006	2N1131/46	2021	2N1225	2003	2N1341	2008	2N1480	2020
2N929/46	2012	2N1030B	2006	2N1131A	2021	2N1226	2003	2N1342	2008	2N1481	2020
2N929/51	2009	2N1030C	2006	2N1132	2021	2N1227	2006	2N1343	2004	2N1482	2020
2N929A	2012	2N1031	2006	2N1132/46	2023	2N1227-3	2006	2N1344	2005	2N1483	2020
2N930	2013	2N1031A	2006	2N1132A	2021	2N1227-4	2006	2N1345	2005	2N1484	2020
2N930/46	2012	2N1031B	2006	2N1132A46	2023	2N1227-4R	2006	2N1346	2005	2N1485	2020
2N930A	2012	2N1031C	2006	2N1132A/46	2023	2N1227A	2006	2N1347	2005	2N1486	2020
2N930A/46	2012	2N1032	2006	2N1132B	2021	2N1228	2023	2N1348	2005	2N1487	2020
2N930B	2012	2N1032A	2006	2N1132B/46	2023	2N1229	2023	2N1349	2005	2N1488	2020
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2N936	2023	2N1034	2022	2N1136A	2006	2N1233	2043	2N1353	2005	2N1492	2009
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2N938	2022	2N1036	2022	2N1137	2006	2N1239	2025	2N1357	2005	2N1495	2005
2N939	2022	2N1037	2022	2N1137A	2006	2N1240	2025	2N1358	2006	2N1499	2003
2N940	2022	2N1038	2006	2N1137B	2006	2N1241	2025	2N1358A	2006	2N1499A	2003
2N941	2022	2N1039	2006	2N1138	2006	2N1242	2043	2N1358M	2006	2N1499B	2003
2N942	2022	2N1046	2006	2N1138A	2006	2N1243	2043	2N1359	2006	2N1500	2005
2N943	2022	2N1046A	2006	2N1138B	2006	2N1245	2006	2N1360	2006	2N1500/18	2003
2N944	2022	2N1046B	2006	2N1139	2009	2N1246	2006	2N1361	1004	2N1504/10	2003
2N945	2022	2N1051	2009	2N1140	2009	2N1247	2011	2N1362	2006	2N1505	2008
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2N947	2009	2N1053	2012	2N1141A	2005	2N1249	2011	2N1364	2006	2N1507	2008
2N955	2002	2N1054	2012	2N1142A	2005	2N1250	2020	2N1365	2006	2N1508	2008
2N955A	2002	2N1055	2012	2N1143	2005	2N1251	2001	2N1366	2001	2N1509	2008
2N956	2008	2N1056	2004	2N1143A	2005	2N1251#	2001	2N1367	2001	2N1511	2020
2N957	2016	2N1057	2005	2N1144	2005	2N1252	2012	2N1370	2004	2N1512	2020
2N958	2015	2N1058	2001	2N1145	2005	2N1252A	2012	2N1371	2004	2N1513	2020
2N959	2015	2N1058#	2001	2N1146	2006	2N1253	2008	2N1372	2004	2N1514	2020
2N960/46	2003	2N1059	2001	2N1146A	2006	2N1253A	2008	2N1373	2004	2N1515	2003
2N961	2003	2N1060	2013	2N1146B	2006	2N1254	2022	2N1374	2003	2N1516	2005
2N961/46	2003	2N1065	2005	2N1146C	2006	2N1255	2022	2N1375	2004	2N1517	2003
2N962	2003	2N1066	2003	2N1147	2006	2N1256	2022	2N1376	2005	2N1518	2006
2N962/46	2003	2N1067	2020	2N1147A	2006	2N1257	2022	2N1377	2005	2N1519	2006
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2N964	2003	2N1069	2020	2N1147C	2006	2N1259	2022	2N1379	2005	2N1521	2006
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2N964A	2003	2N1072	2017	2N1150	2013	2N1265	2005	2N1381	2004	2N1523	2006
2N965	2003	2N1073	2006	2N1151	2013	2N1265/5	2005	2N1383	2004	2N1524	2003
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2N968	2003	2N1075	2013	2N1154	2012	2N1268	2013	2N1388	2006	2N1526	2005
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2N970	2003	2N1077	2013	2N1155	2012	2N1270	2016	2N1390	2013	2N1527	2003
2N971	2003	2N1081	2013	2N1155/952	2012	2N1271	2016	2N1391	2031	2N1528	2031
2N972	2003	2N1082	2031	2N1156	2012	2N1272	2016	2N1395	2003	2N1529	2006
2N973	2003	2N1084	2021	2N1156/953	2012	2N1273	2004	2N1396	2003	2N1529A	2006
2N974	2003	2N1085	2011	2N1159	2006	2N1273BLU	2003	2N1397	2003	2N1530	2006
2N975	2003	2N1086	2001	2N1160	2006	2N1273GRN	2003	2N1403	2005	2N1530A	2006
2N976	2003	2N1086A	2001	2N1168	2006	2N1273ORN	2003	2N1404	2005	2N1531	2006
2N977	2003	2N1087	2001	2N1169	2001	2N1273RED	2007	2N1404A	2005	2N1531A	2006
2N978	2021	2N1090	2001	2N1171	2004	2N1273YEL	2003	2N1405	2005	2N1532	2006
2N979	2003	2N1090#	2001	2N1173	2001	2N1274	2007	2N1406	2003	2N1532A	2006
2N980	2003	2N1091	2001	2N1174	2005	2N1274BLU	2003	2N1407	2003	2N1534	2006
2N981	2011	2N1092	2012	2N1175	2005	2N1274BRN	2007	2N1408	2005	2N1534A	2006
2N982	2003	2N1093	2007	2N1175A	2005	2N1274GRN	2003	2N1409	2008	2N1535	

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DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-
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2N1541	2006	2N1672A	2002	2N1943	2012	2N2078	2008	2N2212	2008	2N2351A	2008
2N1541A	2006	2N1673	2005	2N1944	2008	2N2078A	2008	2N2214	2015	2N2352	2009
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2N1542A	2006	2N1676	2021	2N1946	2008	2N2079A	2008	2N2217/51	2016	2N2353	2016
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2N1546	2006	2N1681	2005	2N1951	2008	2N2082	2008	2N2219/51	2016	2N2358	2006
2N1546A	2006	2N1682	2009	2N1952	2008	2N2082A	2006	2N2219A	2009	2N2360	2005
2N1547	2006	2N1683	2005	2N1953	2012	2N2084	2003	2N2219S	2038	2N2361	2005
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2N1559	2006	2N1726	2005	2N1965	2009	2N2137A	2006	2N2246	2009	2N2383	2020
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2N1560	2006	2N1728	2005	2N1969	2005	2N2138A	2006	2N2248	2008	2N2387	2013
2N1560A	2006	2N1729	2006	2N1970	2008	2N2139	2006	2N2249	2009	2N2388	2013
2N1561	2003	2N1730	2001	2N1971	2008	2N2139A	2006	2N2250	2009	2N2389	2008
2N1562	2003	2N1731	2004	2N1972	2008	2N2140	2006	2N2251	2009	2N2390	2008
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2N1570	2004	2N1744	2004	2N1980	2006	2N2142	2006	2N2255	2008	2N2396	2009
2N1572	2012	2N1745	2003	2N1981	2008	2N2142A	2006	2N2256	2016	2N2397	2016
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2N1574	2008	2N1747	2003	2N1983	2009	2N2143A	2006	2N2258	2003	2N2399	2005
2N1581	2004	2N1748	2005	2N1984	2012	2N2144	2006	2N2259	2003	2N2400	2003
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2N1613B	2008	2N1788	2005	2N2003	2022	2N2171	2005	2N2292	2006	2N2430	2001
2N1614	2004	2N1789	2005	2N2004	2022	2N2172	2005	2N2293	2006	2N2431	2006
2N1615	2012	2N1790	2005	2N2005	2022	2N2173	2004	2N2294	2006	2N2431B	2007
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2N1638	2005	2N1889	2008	2N2048	2005	2N2189	2005	2N2314	2016	2N2466	2009
2N1638/33	2003	2N1890	2008	2N2048A	2005	2N2190	2005	2N2315	2016	2N2467	2006
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2N1640	2022	2N1893	2030	2N2060	2008	2N2192A	2008	2N2318	2009	2N2474	2022
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2N1644A	2009	2N1897	2012	2N2062A	2006	2N2194	2008	2N2332	2022	2N2477	2038
2N1646	2003	2N1898	2012	2N2063	2006	2N2194A	2008	2N2333	2022	2N2480	2009
2N1651	2006	2N1905	2006	2N2063A	2006	2N2194B	2008	2N2334	2022	2N2480A	2009
2N1652	2006	2N1907	2006	2N2064	2006	2N2195	2008	2N2335	2022	2N2481	2009
2N1654	2012	2N1908	2006								

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DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-
2N2491	2006	2N2695	2024	2N2913	2008	2N3050	2022	2N3251A	2009	2N3397-YEL	2031
2N2492	2006	2N2696	2024	2N2914	2008	2N3051	2022	2N3252	2038	2N3398	2031
2N2493	2006	2N2699	2001	2N2915	2008	2N3052	2016	2N3252S	2038	2N3398-BLU	2031
2N2494	2003	2N2706	2007	2N2916	2008	2N3053	2030	2N3253	2014	2N3398-ORG	2031
2N2495	2005	2N2708	2038	2N2917	2008	2N3054	2019	2N3261	2016	2N3398-RED	2031
2N2496	2005	2N2709	2022	2N2918	2008	2N3054A	2020	2N3267	2003	2N3398-WHT	2031
2N2501	2009	2N2710	2038	2N2919	2008	2N3055	2041	2N3268	2009	2N3398-YEL	2010
2N2509	2012	2N2711	2015	2N2920	2008	2N3058	2023	2N3279	2003	2N3399	2003
2N2510	2012	2N2712	2015	2N2921	2016	2N3059	2023	2N3280	2003	2N3400	2005
2N2511	2012	2N2713	2015	2N2922	2016	2N3060	2043	2N3281	2003	2N3401	2022
2N2514	2012	2N2714	2015	2N2923	2009	2N3061	2043	2N3282	2003	2N3402	2008
2N2517	2012	2N2715	2015	2N2924	2011	2N3062	2023	2N3283	2003	2N3403	2008
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2N5773	2020	2N5993	2017	2N6289	2017	2S131	2016	2SA45-1	2007	2SA	

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DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-
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2SA109	2003	2SA212	2007	2SA304	2007	2SA399	2005	2SA478G	2003	2SA509ORN	2032
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2SA203AA	2004	2SA289	2003	2SA383	2003	2SA472-B	2003	2SA503ORN	2014	2SA564R	2022
2SA203B	2007	2SA290	2003	2SA384	2003	2SA472-C	2005	2SA504	2021	2SA564RED	2032
2SA203P	2007	2SA291	2005	2SA385	2007	2SA472-D	2005	2SA504ORN	2021	2SA564S	2022
2SA204	2007	2SA292	2005	2SA385L	2007	2SA472-E	200				

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DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-
2SA565C	2023	2SA673AK	2023	2SB30	2006	2SB107A	2006	2SB176P	2003	2SB292A	2007
2SA565D	2023	2SA673AS(C)	2023	2SB31	2006	2SB108	2007	2SB176R	2007	2SB293	2005
2SA565K	2021	2SA673B	2023	2SB32	2007	2SB108A	2007	2SB176RED	2003	2SB294	2004
2SA567	2024	2SA673C	2023	2SB32-0	2004	2SB110	2004	2SB177	2007	2SB295	2006
2SA567A	2034	2SA673C2	2023	2SB32-1	2004	2SB111	2004	2SB178	2005	2SB296	2006
2SA567B	2032	2SA673D	2023	2SB32-2	2004	2SB111K	2004	2SB178A	2005	2SB299	2005
2SA567GRN	2032	2SA677	2023	2SB32-4	2007	2SB112	2005	2SB178C	2007	2SB301	2006
2SA567ORN	2032	2SA678	2023	2SB33	2007	2SB113	2005	2SB178M	2007	2SB302	2003
2SA567RED	2032	2SA678A	2034	2SB33-4	2004	2SB114	2004	2SB178N	2007	2SB303	2007
2SA567YEL	2032	2SA678C	2023	2SB33BLK	2007	2SB115	2005	2SB178S	2007	2SB304	2005
2SA568	2034	2SA685	2023	2SB33E	2007	2SB116	2005	2SB178T	2005	2SB304A	2007
2SA568A	2022	2SA695	2032	2SB33F	2007	2SB117	2005	2SB178V	2007	2SB309	2006
2SA568B	2022	2SA696	2023	2SB34	2004	2SB117K	2007	2SB178X	2007	2SB310	2006
2SA568GRN	2032	2SA696D	2023	2SB37	2003	2SB119	2004	2SB180	2006	2SB311	2006
2SA568RED	2022	2SA699	2025	2SB37A	2005	2SB120	2007	2SB180A	2006	2SB312	2006
2SA568YEL	2022	2SA699A	2025	2SB37B	2005	2SB122	2006	2SB181	2006	2SB313	2006
2SA569	2023	2SA701	2034	2SB37C	2002	2SB123	2006	2SB181A	2006	2SB315	2004
2SA569A	2034	2SA701F	2023	2SB37E	2007	2SB126	2006	2SB183	2004	2SB316	2004
2SA569GRN	2032	2SA701FJ	2023	2SB38	2004	2SB126F	2006	2SB184	2005	2SB317	2004
2SA569RED	2032	2SA701FO	2023	2SB39	2003	2SB126V	2006	2SB185	2007	2SB318	2006
2SA569YEL	2032	2SA702	2034	2SB40	2005	2SB127	2006	2SB186	2003	2SB319	2006
2SA570	2021	2SA703	2025	2SB41	2006	2SB128	2004	2SB186B	2007	2SB320	2006
2SA570A	2021	2SA704	2034	2SB42	2006	2SB128A	2006	2SB187	2006	2SB321	2005
2SA570ORN	2032	2SA704A	2034	2SB43	2007	2SB129	2004	2SB187K	2007	2SB322	2004
2SA570RED	2032	2SA704B	2034	2SB43A	2003	2SB129A	2006	2SB187S	2003	2SB323	2005
2SA570YEL	2032	2SA704GRN	2034	2SB44	2007	2SB130	2006	2SB188	2003	2SB324	2006
2SA572	2023	2SA704YEL	2034	2SB46	2005	2SB130A	2006	2SB189	2006	2SB324(N)	2006
2SA578	2022	2SA705	2034	2SB47	2007	2SB131	2006	2SB199	2005	2SB324A	2006
2SA579	2022	2SA705A	2034	2SB48	2004	2SB131A	2006	2SB200	2005	2SB324B	2006
2SA595	2025	2SA705B	2034	2SB49	2004	2SB132	2006	2SB200A	2007	2SB324D	2006
2SA595C	2025	2SA705GRN	2034	2SB50	2005	2SB132A	2006	2SB201	2005	2SB324E	2006
2SA597	2040	2SA705RED	2034	2SB51	2004	2SB134	2004	2SB202	2005	2SB324E-L	2005
2SA603	2023	2SA705YEL	2034	2SB52	2004	2SB134E	2004	2SB215	2006	2SB324F	2006
2SA604	2012	2SA713A	2034	2SB53	2004	2SB135	2004	2SB216	2006	2SB324G	2006
2SA605	2012	2SA715	2040	2SB54	2007	2SB135A	2004	2SB217	2006	2SB324H	2006
2SA608	2023	2SA719	2023	2SB54B	2005	2SB135B	2003	2SB218	2005	2SB324I	2006
2SA608C	2023	2SA719P	2023	2SB54BA	2007	2SB135C	2003	2SB219	2004	2SB324K	2006
2SA608D	2023	2SA719Q	2023	2SB54G	2007	2SB135E	2003	2SB220	2005	2SB324L	2005
2SA608E	2023	2SA719R	2023	2SB54L	2004	2SB136	2004	2SB221	2005	2SB324M	2005
2SA608F	2023	2SA719S	2023	2SB54YEL	2005	2SB136A	2005	2SB221A	2005	2SB324N	2006
2SA609	2023	2SA720	2032	2SB56	2007	2SB136B	2005	2SB222	2005	2SB324S	2006
2SA609A	2022	2SA721	2022	2SB56A	2007	2SB136C	2005	2SB223	2005	2SB324V	2006
2SA609E	2023	2SA721T	2022	2SB56C	2003	2SB136D	2004	2SB224	2007	2SB326	2005
2SA609F	2022	2SA721U	2022	2SB56E	2003	2SB136V	2007	2SB225	2007	2SB327	2005
2SA610	2023	2SA722	2022	2SB56G	2007	2SB137	2006	2SB226	2005	2SB328	2005
2SA610B	2022	2SA723	2023	2SB57	2007	2SB138	2006	2SB227	2005	2SB329	2007
2SA611	2023	2SA725	2034	2SB58	2006	2SB138A	2006	2SB228	2006	2SB332	2006
2SA613	2043	2SA725Y	2034	2SB59	2005	2SB138B	2006	2SB229	2006	2SB333	2006
2SA614	2043	2SA726	2023	2SB60	2007	2SB140	2006	2SB230	2006	2SB334	2006
2SA617K	2021	2SA726Y	2023	2SB60A	2004	2SB141	2006	2SB231	2006	2SB335	2007
2SA618K	2021	2SA728	2034	2SB61	2007	2SB142	2006	2SB233	2006	2SB336	2007
2SA628	2023	2SA730	2026	2SB63	2006	2SB142B	2007	2SB235	2006	2SB337	2006
2SA628A	2021	2SA733	2023	2SB64	2006	2SB142C	2007	2SB236	2006	2SB338	2006
2SA628AA	2032	2SA733H	2023	2SB65	2004	2SB143	2006	2SB237	2006	2SB339	2006
2SA628D	2023	2SA733I	2023	2SB66	2007	2SB143P	2006	2SB237-12A	2006	2SB340	2006
2SA628E	2023	2SA733IO	2023	2SB66H	2003	2SB144	2006	2SB237-12B	2006	2SB341	2006
2SA628EF	2023	2SA733IQ	2023	2SB67	2007	2SB144P	2006	2SB238	2006	2SB341VS	2006
2SA628F	2023	2SA733P	2023	2SB67A	2007	2SB145	2006	2SB238-12A	2006	2SB345	2007
2SA629	2034	2SA733Q	2023	2SB68	2006	2SB146	2006	2SB238-12B	2006	2SB346	2003
2SA629B	2034	2SA733QP	2023	2SB71	2005	2SB147	2006	2SB238-12C	2006	2SB346K	2005
2SA633	2030	2SA735	2023	2SB72	2007	2SB149	2006	2SB240	2006	2SB347	2005
2SA633A	2030	2SA738	2040	2SB73	2007	2SB151	2006	2SB240A	2006	2SB348	2005
2SA634	2009	2SA741H	2024	2SB73A	2003	2SB152	2006	2SB242	2006	2SB349	2005
2SA634A	2009	2SA763	2005	2SB73B	2003	2SB153	2004	2SB242A	562	2SB350	2004
2SA634L	2009	2SA773	2023	2SB74	2005	2SB154	2004	2SB243	2006	2SB351	2006
2SA636	2025	2SA778A	2023	2SB75	2007	2SB154C	2008	2SB243A	2006	2SB352	2006
2SA639S	2023	2SA778AK	2023	2SB75A	2007	2SB155	2007	2SB246	2006	2SB353	2006
2SA640	2023	2SA778K	2023	2SB75AH	2007	2SB155A	2004	2SB247	2006	2SB353A	2006
2SA640M	2034	2SA781K	2021	2SB75B	2005	2SB156	2006	2SB248	2006	2SB354	2006
2SA641	2023	2SA783	2023	2SB75C	2003	2SB156A	2004	2SB248A	2006	2SB355	2006
2SA641M	2023	2SA784	2034	2SB75F	2003	2SB156AA	2007	2SB249	2006	2SB355B	2006
2SA642	2032	2SA786	2023	2SB75H	2007	2SB156AB	2007	2SB250	2006	2SB355S	2006
2SA642A	2032	2SA787	2034	2SB75LB	2007	2SB156B	2007	2SB250A	2006	2SB355S	2006
2SA642B	2032	2SA812	2023	2SB76	2007	2SB156C	2004	2SB251	2006	2SB360	2006
2SA642GRN	2032	2SA825	2022	2SB77	2007	2SB156D	2004	2SB251A	2006	2SB361	2006
2SA642ORN	2032	2SA828A	2030	2SB77A	2007	2SB157	2003	2SB252	2006	2SB362	2006
2SA642RED	2032	2SA838	2034	2SB77AA	2003	2SB158	2003	2SB253	2006	2SB364	2007
2SA642S	2023	2SA842-BL	2034	2SB77AH	2003	2SB159	2003	2SB254	2006	2SB365	2006
2SA642YEL	2032	2SA842-GR	2034	2SB77B	2003	2SB160	2003	2SB255	2006	2SB366	2007
2SA643	2026	2SA880	2022	2SB77C	2003	2SB161	2004	2SB256	2006	2SB367	2006
2SA643R	2025	2SA888	2034	2SB77H	2003	2SB163	2004	2SB257	2007	2SB367(B)P	2006
2SA643W	2032	2SA945-O	2023	2SB78	2007	2SB164	2003	2SB259	2006	2SB367A	2006
2SA659	2034	2SA940RN	2023	2SB79	2004	2SB165	2005	2SB260	2006	2SB367B	2006
2SA659(E)	2023	2SANJ101	2023	2SB80	2006	2SB166	2003	2SB261	2004	2SB367C	2006
2SA659C	2034	2SB-C731	1139	2SB83	2006	2SB167	2005	2SB262	2005	2SB367H	2006
2SA659D	2034	2SB16A	2006	2SB84	2006	2SB168	2007	2SB263	2007	2SB368	2006
2SA659E	2034	2SB17A	2006	2SB89	2007	2SB169	2007	2SB264	2005	2SB368B	2006
2SA659F	2032	2SB18A	2003	2SB89A	2007	2SB170	2004	2SB265	2003	2SB368H	2006
2SA661	2021	2SB19	2006	2SB89AH	2007	2SB171	2005	2SB266	2004	2SB370	2006
2SA666	2023	2SB20	2006	2SB89H	2007	2SB171A	2007	2SB267	2004	2SB370A	2005
2SA666A	2023	2SB21	2006	2SB90	2005	2SB171B	2007	2SB268	2003	2SB370B	2006
2SA666H	2023	2SB22	2003	2SB91	2004	2SB172	2005	2SB269	2004	2SB370V	2005
2SA666HR	2023	2SB22A	2003	2SB92	2005	2SB172A	2007	2SB270	2005	2SB371	2003
2SA666IQRS	2023	2SB22B	2003	2SB94	2007	2SB172D	2007	2SB271	2005	2SB372	2006
2SA666P	2011	2SB22P	2007	2SB95	2003	2SB172F	2007	2SB272	2005	2SB373	2006
2SA666Q	2009	2SB22YEL	2005	2SB97	2004	2SB173	2007	2SB273	2005	2SB374	2006
2SA666QRS	2023	2SB23	2003	2SB98	2005	2SB173A	2005	2SB274	2006	2SB375	2006
2SA666R	2009	2SB24	2003	2SB99	2005	2SB173B	2005	2SB275	2006	2SB375A	2006
2SA666S	2013	2SB25	2006	2SB100	2005	2SB173C	2005	2SB276	2006	2SB375A-2B	2006
2SA671K	2040	2SB25B	2004	2SB101	2004	2SB174	2005	2SB282	2006	2SB375A-5B	2006
2SA672	2023	2SB26	2006	2SB102	2004	2SB175	2005	2SB283			

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DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-
2SB379A	2007	2SB464	2006	2SC34	2001	2SC130	2014	2SC213	2014	2SC363	2030
2SB379B	2007	2SB465	2006	2SC35	2001	2SC131	2016	2SC214	2009	2SC366	2009
2SB380	2007	2SB466	2006	2SC36	2001	2SC131T	2030	2SC215	2014	2SC366-ORG-G	2016
2SB380A	2007	2SB467	2006	2SC37	2011	2SC132	2018	2SC216	2012	2SC366-RED-G	2016
2SB381	2004	2SB470	2007	2SC38	2030	2SC133	2016	2SC217	2012	2SC368G	2016
2SB382	2007	2SB471	2006	2SC38A	2009	2SC134	2016	2SC218	2012	2SC368G-O	2016
2SB383	2005	2SB471A	2006	2SC38Y	2009	2SC135	2016	2SC219	2006	2SC368G-R	2016
2SB383-1	2005	2SB471B	2006	2SC39	2015	2SC137	2016	2SC220	2030	2SC368G-Y	2016
2SB384	2004	2SB472	2006	2SC39A	2015	2SC138	2014	2SC221	2030	2SC367	2030
2SB385	2004	2SB472A	2006	2SC40	2015	2SC138A	2038	2SC223	2014	2SC367-O	2016
2SB386	2003	2SB472B	2006	2SC41	2041	2SC138S	2009	2SC224	2014	2SC367-ORG-G	2016
2SB387	2005	2SB473	2006	2SC44	2039	2SC139	2038	2SC225	2014	2SC367-R	2016
2SB389	2003	2SB474	2006	2SC45	2009	2SC140	2018	2SC226	2012	2SC367-RED-G	2016
2SB390	2006	2SB474-2	2006	2SC46	2013	2SC141	2014	2SC227	2012	2SC367-Y	2016
2SB391	2006	2SB474-3	2006	2SC47	2039	2SC142	2009	2SC228	2012	2SC367-YEL-G	2016
2SB392	2006	2SB474-4	2006	2SC50	2001	2SC143	2009	2SC230	2009	2SC367G	2016
2SB393	2006	2SB474-6D	2006	2SC50A	2001	2SC144	2009	2SC231	2012	2SC367G-O	2016
2SB394	2006	2SB474C	2006	2SC51	2008	2SC144A	2009	2SC232	2012	2SC367G-R	2016
2SB395	2006	2SB474V10	2006	2SC52	2009	2SC147	2018	2SC233	2012	2SC367G-Y	2016
2SB396	2004	2SB474YEL	2006	2SC53	2038	2SC147A	2030	2SC237	2016	2SC368	2015
2SB400	2007	2SB475	2006	2SC54	2016	2SC147B	2030	2SC238	2009	2SC368-BL	2015
2SB400B	2007	2SB475A	2007	2SC55	2009	2SC150	2011	2SC239	2016	2SC368-GR	2015
2SB401	2007	2SB475B	2007	2SC56	2015	2SC150H	2009	2SC240	2020	2SC369	2030
2SB402	2007	2SB475C	2006	2SC57	2014	2SC150T	2030	2SC241	2020	2SC368-BL	2015
2SB403	2007	2SB475D	2006	2SC58A	2008	2SC151	2030	2SC242	2020	2SC368-BLU-G	2015
2SB405	2006	2SB475F	2007	2SC58AC	2008	2SC151H	2009	2SC250	2011	2SC369-GR	2015
2SB405A	2006	2SB475P	2007	2SC60	2001	2SC152	2038	2SC251	2011	2SC368-GRN-G	2015
2SB405B	2006	2SB476	2006	2SC61	2009	2SC154	2008	2SC251A	2011	2SC369-V	2015
2SB405C	2006	2SB477	2004	2SC62	2009	2SC154A	2008	2SC252	2011	2SC369BL	2009
2SB405H	2006	2SB477(C)	2007	2SC63	2009	2SC154B	2008	2SC253	2011	2SC369BLK	2031
2SB405K	2006	2SB478	2004	2SC65	2008	2SC154C	2008	2SC263	2011	2SC369G	2009
2SB405RED	2007	2SB479	2004	2SC65B	2008	2SC155	2011	2SC264	2011	2SC369G-BL	2015
2SB407	2006	2SB480	2004	2SC65Y	2008	2SC156	2011	2SC265	2016	2SC369G-GR	2015
2SB407O	2006	2SB481	2006	2SC65Y(B)	2008	2SC157	2009	2SC266	2015	2SC369G/BLK	2009
2SB407ORN	2006	2SB481A	2006	2SC66EV	2015	2SC158	2009	2SC267	2013	2SC369G/GRN	2011
2SB408	2007	2SB481A-W	2006	2SC67	2009	2SC159	2009	2SC267A	2009	2SC369GR	2009
2SB410	2006	2SB481D	2006	2SC68	2009	2SC160	2011	2SC268	2008	2SC370	2009
2SB411	2006	2SB481UVW	2006	2SC70	2008	2SC162	2030	2SC268A	2008	2SC370-G	2016
2SB414	2006	2SB482	2003	2SC70A	2008	2SC163	2009	2SC268B	2008	2SC370-O	2009
2SB415	2006	2SB482V	2038	2SC71	2001	2SC164	2038	2SC269	2015	2SC370-T	2016
2SB415B	2006	2SB483	2006	2SC72	2001	2SC165	2038	2SC271	2011	2SC370G	2016
2SB416	2006	2SB484	2004	2SC73	2001	2SC166	2013	2SC272	2011	2SC371	2009
2SB417	2006	2SB486	2007	2SC74	2030	2SC167	2013	2SC272AO	2009	2SC371-O	2009
2SB422	2007	2SB492	2006	2SC74-GR	2038	2SC170	2015	2SC281	2030	2SC371-ORG-G	2016
2SB423	2007	2SB493	2006	2SC74-O	2038	2SC171	2015	2SC281A	2009	2SC371-R	2016
2SB424	2006	2SB494	2006	2SC74-R	2038	2SC172	2016	2SC281B	2014	2SC371-R-1	2009
2SB425	2006	2SB495	2006	2SC74-Y	2038	2SC172A	2009	2SC281C	2030	2SC371-RED-G	2016
2SB426	2006	2SB495A	2006	2SC75	2001	2SC173	2002	2SC281H	2015	2SC371-T	2016
2SB427	2007	2SB496	2005	2SC76	2001	2SC174	2011	2SC282	2016	2SC371(O)	2009
2SB428	2007	2SB497	2004	2SC77	2001	2SC174A	2016	2SC283	2009	2SC371B	2009
2SB431	2005	2SB498	2007	2SC77B	2001	2SC175	2002	2SC283H	2016	2SC371G	2016
2SB432	2006	2SB502	2025	2SC78	2001	2SC176	2002	2SC284	2009	2SC371G-O	2016
2SB433	2006	2SB503	2043	2SC79	2038	2SC177	2002	2SC285	2009	2SC371G-R	2016
2SB434	2043	2SB503-O	2043	2SC80	2011	2SC178	2002	2SC285A	2009	2SC371ORN	2009
2SB434-O	2043	2SB503-R	2043	2SC81	2019	2SC179	2001	2SC286	2011	2SC371R	2009
2SB434-R	2043	2SB503-Y	2043	2SC82	2020	2SC180	2001	2SC287	2011	2SC372	2014
2SB434-Y	2043	2SB503A-O	2043	2SC84	2002	2SC181	2002	2SC287A	2015	2SC372-O	2014
2SB434G-O	2043	2SB503A-R	2043	2SC85	2001	2SC182	2030	2SC288	2011	2SC372-ORG-G	2016
2SB434G-R	2043	2SB503A-Y	2043	2SC86	2001	2SC182(O)	2015	2SC288A	2038	2SC372-Y	2016
2SB434G-Y	2043	2SB504	2043	2SC87	2009	2SC182Q	2015	2SC289	2011	2SC372-YEL-G	2016
2SB435	2025	2SB505	2043	2SC88	2008	2SC182V	2015	2SC291	2030	2SC372(H)	2009
2SB435-O	2025	2SB507	2025	2SC89	2001	2SC183	2011	2SC292	2030	2SC372BL	2014
2SB435-R	2025	2SB508	2025	2SC89H	2002	2SC183(P)	2015	2SC293	2030	2SC372G	2014
2SB435-Y	2025	2SB511	2040	2SC90	2001	2SC183(Q)(R)	2009	2SC298	2030	2SC372G-O	2016
2SB435G-O	2040	2SB512	2043	2SC90H	2002	2SC183(R)	2011	2SC298-4	2030	2SC372G-Y	2016
2SB435G-R	2040	2SB513	2043	2SC91	2002	2SC183F	2015	2SC299	2030	2SC372ORN	2031
2SB435G-Y	2040	2SB535	2006	2SC91H	2002	2SC183P	2011	2SC300	2009	2SC372Y	2014
2SB439	2007	2SB542	2034	2SC97	2030	2SC183Q	2011	2SC301	2009	2SC372YEL	2031
2SB440	2007	2SB561B	2023	2SC97A	2014	2SC183R	2011	2SC302	2009	2SC373	2014
2SB443	2007	2SB561C	2023	2SC98	2009	2SC183RED	2015	2SC303	2014	2SC373-G	2016
2SB443A	2005	2SBF1	2004	2SC99	2009	2SC183W	2011	2SC304	2014	2SC373-O	2014
2SB443B	2005	2SBF1A	2004	2SC100	2009	2SC184	2011	2SC306	2030	2SC373(GR)	2014
2SB444	2007	2SBF2	2005	2SC101	2017	2SC184(R)	2015	2SC307	2030	2SC373G	2016
2SB444A	2005	2SBF5	2006	2SC101A	2017	2SC184Q	2015	2SC313	2011	2SC373GR	2014
2SB444B	2005	2SC-11	2015	2SC102	2039	2SC184RED	2015	2SC315	2009	2SC373W	2014
2SB445	2006	2SC-313	2011	2SC103	2009	2SC185	2011	2SC316	2016	2SC374	2014
2SB447	2006	2SC-F5	2009	2SC103A	2009	2SC185A	2015	2SC317	2009	2SC374(BL)	2009
2SB448	2006	2SC-F6	2014	2SC104	2009	2SC185Q	2015	2SC317C	2009	2SC374(V)	2009
2SB449	2006	2SC-F8	2014	2SC104A	2015	2SC185R	2011	2SC318	2011	2SC374B	2014
2SB449F	2006	2SC11	2001	2SC105	2009	2SC186	2011	2SC318A	2016	2SC374BLK	2031
2SB449P	2006	2SC12	2009	2SC106	2014	2SC187	2015	2SC319	2038	2SC374V	2031
2SB450	2005	2SC13	2001	2SC107	2014	2SC188	2030	2SC320	2009	2SC375	2030
2SB450A	2005	2SC14	2002	2SC109	2008	2SC189	2030	2SC321	2009	2SC376	2009
2SB451	2006	2SC15	2009	2SC109A	2014	2SC190	2009	2SC321H	2009	2SC377	2009
2SB452	2006	2SC15-O	2030	2SC110	2009	2SC191	2010	2SC323	2016	2SC377-BN	2016
2SB452A	2006	2SC15-1	2010	2SC111	2009	2SC192	2010	2SC324	2009	2SC377-BRN	2011
2SB453	2005	2SC15-2	2010	2SC112	2038	2SC193	2010	2SC324A	2009	2SC377-O	2016
2SB454	2005	2SC15-3	2010	2SC113	2038	2SC194	2012	2SC324H	2009	2SC377-ORG	2011
2SB455	2005	2SC16	2009	2SC114	2009	2SC195	2013	2SC325C	2019	2SC377-R	2016
2SB457	2005	2SC16A	2009	2SC115	2030	2SC196	2013	2SC325E	2019	2SC377-RED	2011
2SB457A	2006	2SC17	2009	2SC115-1	2030	2SC197	2013	2SC335	2014	2SC378	2016
2SB457AC	2006	2SC17A	2009	2SC116	2008	2SC198	2041	2SC344(Y)	2011	2SC378-O	2016
2SB458	2006	2SC18	2009	2SC116T	2008	2SC198S	2041	2SC349	2015	2SC378-ORG	2011
2SB458A	2006	2SC19	2009	2SC117	2014	2SC199	2008	2SC350	2015	2SC378-R	2016
2SB458B	2011	2SC20	2009	2SC118	2014	2SC200	2038	2SC350H	2015	2SC378-RED	2011
2SB458BC	2009	2SC21	2020	2SC119	2014	2SC201	2038	2SC351	2015	2SC378-Y	2016
2SB458BL	2011	2SC26	2016	2SC120	2016	2SC203	2016	2SC351FA1	2011	2SC378-YEL	2011
2SB458C	2011	2SC27	2009	2SC121	2016	2SC204	2016	2SC352	2011	2SC378Y	2009
2SB459	2002	2SC28	2016	2SC122	2016	2SC205	2009	2SC352A	2030	2SC379	2011
2SB460	2003	2SC29	2016	2SC123	2016	2SC206	2011	2SC354	2014	2SC380	2016
2SB461	2006	2SC29D	2013	2SC124	2016	2SC20					

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2SC380-Y	2016	2SC405	2002	2SC484-YEL	2012	2SC512-RED	2012	2SC566	2014	2SC667	2011
2SC380-YEL	2011	2SC406	2002	2SC485	2009	2SC513	2008	2SC567	2011	2SC668	2014
2SC380A	2015	2SC423	2030	2SC485-BL	2012	2SC513-O	2008	2SC568	2011	2SC668(C)	2011
2SC380A-O	2015	2SC423D	2030	2SC485-BLU	2012	2SC513-ORG	2012	2SC571	2014	2SC668(D)	2011
2SC380A-R	2016	2SC423E	2009	2SC485-R	2012	2SC513-R	2008	2SC581	2011	2SC668B	2011
2SC380A-Y	2016	2SC423F	2030	2SC485-RED	2012	2SC513-RED	2012	2SC587	2016	2SC668B1	2011
2SC380A/ORN	2015	2SC424	2011	2SC485-Y	2012	2SC516	2008	2SC587A	2016	2SC668B2	2011
2SC380A/RED	2015	2SC425	2009	2SC485-YEL	2012	2SC516A	2008	2SC588	2038	2SC668C1	2015
2SC380A(R)	2015	2SC425G	2030	2SC486	2030	2SC517	2020	2SC593	2016	2SC668C2	2009
2SC380AO	2015	2SC426	2011	2SC486-BL	2012	2SC519	2020	2SC594	2038	2SC668D	2014
2SC380AR	2015	2SC427	2016	2SC486-BLU	2012	2SC527	2016	2SC595	2016	2SC668DO	2015
2SC380ATV	2009	2SC428	2016	2SC486-R	2012	2SC528	2011	2SC596	2038	2SC668E	2011
2SC380AY	2009	2SC428	2011	2SC486-RED	2012	2SC529A	2031	2SC597	2014	2SC668E1	2015
2SC380ORN	2015	2SC429J	2011	2SC486-Y	2012	2SC535	2011	2SC601	2038	2SC668E2	2015
2SC380R	2015	2SC430	2011	2SC486-YEL	2012	2SC535A	2015	2SC601N	2038	2SC668EV	2011
2SC380RED	2015	2SC430H	2011	2SC487	2017	2SC535ABC	2011	2SC602	2015	2SC668F	2011
2SC380Y	1102	2SC433	2009	2SC488	2017	2SC535B	2015	2SC605	2015	2SC673	2015
2SC380YEL	2015	2SC440	2009	2SC489	2017	2SC535C	2015	2SC605L	2015	2SC673C	2023
2SC381	2015	2SC441	2009	2SC490	2017	2SC536	2014	2SC605Q	2015	2SC673C2	2023
2SC381-BN	2016	2SC442	2009	2SC491	2017	2SC536(E)	2009	2SC606	2016	2SC673D	2023
2SC381-BRN	2011	2SC444	2014	2SC492	2009	2SC536A	2014	2SC608	2008	2SC674	2015
2SC381-O	2014	2SC454	2009	2SC494	2041	2SC536B	2014	2SC608E	2009	2SC674B	2015
2SC381-ORG	2011	2SC454A	2009	2SC494BL	2041	2SC536C	2014	2SC608T	2030	2SC674C	2015
2SC381-R	2016	2SC454B	2009	2SC495	2019	2SC536CTV	2015	2SC609	2008	2SC674D	2015
2SC381-RED	2011	2SC454C	2009	2SC495-O	2018	2SC536D	2014	2SC609F	2023	2SC674E	2011
2SC381(BN)	2015	2SC454D	2009	2SC495-O	2019	2SC536E	2014	2SC609T	2014	2SC674F	2015
2SC381ORN	2009	2SC454L	2016	2SC495-R	2018	2SC536EP	2014	2SC609Y	2030	2SC674G	2015
2SC381R	2009	2SC454LA	2011	2SC495ORN	2018	2SC536F	2014	2SC611	2011	2SC679H	2009
2SC382	2011	2SC455	2011	2SC495P	2019	2SC536F1	2014	2SC612	2011	2SC680	2017
2SC382BK	2011	2SC456	2030	2SC495Q	2018	2SC536F2	2014	2SC613	2015	2SC680A	2017
2SC382BL	2015	2SC458	2009	2SC495RED	2018	2SC536FC	2014	2SC614	2014	2SC682	2011
2SC382BLK	2015	2SC458(C,D)	2009	2SC496	2018	2SC536FP	2016	2SC614D	2030	2SC682A	2011
2SC382BN	2015	2SC458A	2009	2SC496-O	2018	2SC536FZ	2009	2SC615	2014	2SC683	2011
2SC382BRN	2011	2SC458AD	2009	2SC496-O	2019	2SC536G	2014	2SC619	2009	2SC683A	2015
2SC382G	2015	2SC458B	2009	2SC496-ORG	2030	2SC536G2	2009	2SC619(C)	2030	2SC683V	2011
2SC382GR	2015	2SC458C	2009	2SC496-R	2030	2SC536GJ	2009	2SC619B	2009	2SC684	2015
2SC382R	2015	2SC458D	2009	2SC496-RED	2030	2SC536GP	2009	2SC619C	2009	2SC684BLK	2015
2SC382RED	2011	2SC458K	2016	2SC496-Y	2030	2SC536GY	2015	2SC620	2009	2SC684F	2011
2SC382V	2015	2SC458KB	2009	2SC496-YEL	2030	2SC536GZ	2014	2SC620(C)	2009	2SC685B	2015
2SC382W	2015	2SC458L	2016	2SC496ORN	2018	2SC536NP	2016	2SC620(D)	2009	2SC686	2012
2SC383	2014	2SC458L(C)	2009	2SC496Y	2019	2SC536W	2014	2SC620C	2009	2SC688C	2015
2SC383W	2009	2SC458LC	2009	2SC496YEL	2018	2SC537	2009	2SC620D	2009	2SC689	2038
2SC384	2011	2SC458LG	2009	2SC497	2018	2SC537(F)	2030	2SC620DE	2009	2SC689H	2013
2SC384(O)	2011	2SC458LG(B)	2009	2SC497-O	2008	2SC537ALC	2009	2SC620E	2009	2SC689I	2013
2SC384ORN	2015	2SC458LG(C)	2009	2SC497-R	2008	2SC537B	2009	2SC621	2006	2SC689J	2014
2SC384Y	2011	2SC458LG(D)	2009	2SC497-Y	2008	2SC537C	2009	2SC621A	2009	2SC689K	2014
2SC385	2011	2SC458LGB	2009	2SC497R	2030	2SC537C7	2009	2SC622	2009	2SC689L	2014
2SC385A	2015	2SC458LGC	2009	2SC498	2030	2SC537D	2009	2SC627	2012	2SC689FC	2014
2SC386	2015	2SC458LGD	2009	2SC498-O	2008	2SC537E	2009	2SC628	2015	2SC689FL	2014
2SC386-O	2011	2SC458R	2009	2SC498-R	2008	2SC537EF	2009	2SC629	2011	2SC689FP	2016
2SC386A	2011	2SC459	2011	2SC498-Y	2008	2SC537EJ	2009	2SC629-31	2009	2SC689FU	2014
2SC387	2011	2SC460	2011	2SC499	2008	2SC537EV	2009	2SC629-41	2009	2SC689G	2014
2SC387-G	2011	2SC460A	2011	2SC499-RED	2008	2SC537F	2009	2SC631	2009	2SC689GL	2009
2SC387A	2011	2SC460B	2009	2SC499-YEL	2008	2SC537F-C7	2009	2SC631A	2030	2SC689GU	2009
2SC387G	2011	2SC460C	2009	2SC499R	2008	2SC537F1	2009	2SC632	2030	2SC689GZ	2014
2SC388	2011	2SC460G	2011	2SC499RY	2008	2SC537F2	2009	2SC632A	2009	2SC689H	2014
2SC388A	2015	2SC460GB	2009	2SC499Y	2008	2SC537FC	2009	2SC633	2009	2SC689NP	2016
2SC389	2015	2SC460H	2009	2SC500	2015	2SC537FC7	2009	2SC633-6	2015	2SC694	2009
2SC391	2011	2SC461	2011	2SC500R	2030	2SC537G	2009	2SC633-7	2015	2SC694E	2030
2SC392	2011	2SC461-8F	2011	2SC500Y	2008	2SC537G1	2009	2SC633A	2009	2SC694F	2009
2SC394	2016	2SC461A	2011	2SC501	2038	2SC537G2	2009	2SC633B	2009	2SC695	2011
2SC394-GR	2016	2SC461B	2011	2SC501-O	2038	2SC537GF	2009	2SC634	2009	2SC696	2009
2SC394-GRN	2011	2SC461C	2009	2SC501-ORG	2030	2SC537GI	2009	2SC634A	2009	2SC696A	2009
2SC394-O	2016	2SC461E	2009	2SC501-R	2038	2SC537H	2009	2SC635A	2009	2SC696AA	2009
2SC394-ORG	2011	2SC461L	2011	2SC501-RED	2030	2SC537HT	2009	2SC638	2019	2SC696AB	2009
2SC394-R	2016	2SC463	2015	2SC501-Y	2038	2SC537WF	2009	2SC639	2009	2SC696AD	2009
2SC394-RED	2011	2SC464	2011	2SC501-YEL	2030	2SC538	2009	2SC640	2031	2SC696AE	2009
2SC394-Y	2016	2SC465	2011	2SC502	2030	2SC538A	2009	2SC640B	2031	2SC696AF	2009
2SC394-YEL	2011	2SC466	2011	2SC503	2008	2SC538AQ	2009	2SC641	2016	2SC696AG	2009
2SC394ORN	2009	2SC468	2009	2SC504	2008	2SC538AR	2009	2SC641H	2016	2SC696AH	2009
2SC394R	2009	2SC468H	2016	2SC504-GR	2030	2SC538AS	2009	2SC641K	2021	2SC696AI	2009
2SC394RED	2009	2SC469	2015	2SC504-O	2030	2SC538K	2009	2SC644	2014	2SC696B	2030
2SC394YEL	2009	2SC469K	2011	2SC504-Y	2030	2SC538P	2009	2SC644F	2009	2SC696D	2030
2SC395	2009	2SC469Q	2015	2SC505-O	2008	2SC538Q	2009	2SC644FH	2009	2SC696F	2018
2SC395A	2015	2SC470	2008	2SC505-ORG	2012	2SC538R	2009	2SC644FR	2009	2SC696G	2014
2SC395A-O	2016	2SC470-3	2008	2SC505-R	2008	2SC538S	2009	2SC644FS	2014	2SC696H	2030
2SC395A-ORG	2016	2SC470-4	2008	2SC505-RED	2012	2SC538T	2009	2SC644H	2009	2SC700	2014
2SC395A-R	2016	2SC470-5	2008	2SC506-O	2008	2SC539	2009	2SC644Q	2009	2SC701	2014
2SC395A-RED	2016	2SC470-6	2008	2SC506-ORG	2012	2SC539(L)(K)	2009	2SC644R	2014	2SC701B	2009
2SC395A-Y	2016	2SC472	2031	2SC506-R	2008	2SC539(R)	2009	2SC644RED	2031	2SC705	2011
2SC395A-YEL	2016	2SC472YEL	2031	2SC506-RED	2012	2SC539R	2009	2SC644S	2014	2SC705TV	2011
2SC395R	2011	2SC475	2011	2SC507	2008	2SC539S	2031	2SC644T	2014	2SC707	2011
2SC396	2009	2SC475K	2031	2SC507-O	2008	2SC540	2031	2SC645	2011	2SC707H	2015
2SC397	2011	2SC476	2011	2SC509	2030	2SC541	2016	2SC645A	2015	2SC708	2030
2SC398	2011	2SC477	2016	2SC509-O	2030	2SC544	2011	2SC645B	2015	2SC708(A)	2030
2SC398FA1	2015	2SC478	2009	2SC509-Y	2030	2SC544C	2011	2SC645C	2015	2SC708(B)	2030
2SC399	2011	2SC478(D)	2009	2SC509(O)	2009	2SC544D	2015	2SC645V	2015	2SC708(C)	2030
2SC399FA1	2015	2SC478D	2013	2SC509(Y)	2009	2SC545	2009	2SC648H	2031	2SC708A	2018
2SC400	2015	2SC479H	2009	2SC509G	2030	2SC545C	2015	2SC649	2011	2SC708AH	2015
2SC400-GR	2015	2SC481	2030	2SC509G-O	2030	2SC545D	2015	2SC650	2030	2SC708H	2015
2SC400-O	2015	2SC482	2038	2SC509G-Y	2030	2SC545E	2011	2SC650B	2030	2SC709	2009
2SC400-R	2015	2SC482-GR	2008	2SC510	2008	2SC546	2011	2SC651	2014	2SC709(B)(C)	2009
2SC400-Y	2015	2SC482-GRN	2008	2SC510-O	2008	2SC547	2014	2SC652	2009	2SC709B	2015
2SC401	2009	2SC482-O	2008	2SC510-ORG	2012	2SC548	2038	2SC654	2030	2SC709C	2015
2SC402	2009	2SC482-ORG	2008	2SC510-R	2008	2SC554	2009	2SC655	2011	2SC709D	2009
2SC402A	2016	2SC482-Y	2008	2SC510-RED	2012	2SC556	2038	2SC655T	2031	2SC710	2009
2SC402B	2016	2SC482-YEL	2008	2SC511	2008	2SC559	2038	2SC656	2011	2SC710(D)	2009
2SC403	2009	2SC482GR	2038	2SC511-O	2011	2SC561	2011	2SC657	2015	2SC710B	2009

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2SC711E	2014	2SC772CU	2011	2SC828R	2014	2SC815	2013	2SC945TP	2014	2SC1128	2015
2SC711F	2014	2SC772CV	2009	2SC828RED	2009	2SC816	2020	2SC945TQ	2014	2SC1128D	2009
2SC711G	2014	2SC772CX	2011	2SC828RS	2009	2SC817	2009	2SC945TR	2014	2SC1129	2016
2SC712	2009	2SC772D	2015	2SC828S	2014	2SC818	2009	2SC947	2015	2SC1152	2041
2SC712A	2011	2SC772E	2011	2SC828T	2014	2SC820	2016	2SC948	2015	2SC1152(F)	2041
2SC712C	2009	2SC772K	2015	2SC829	2015	2SC820Q	2011	2SC957	2038	2SC1152G	2041
2SC712CD	2009	2SC772KB	2011	2SC829C	2009	2SC820R	2015	2SC959	2008	2SC1158	2011
2SC712D	2009	2SC772KD	2011	2SC829Y	2009	2SC821	2015	2SC968	2018	2SC1159	2015
2SC712DC	2009	2SC772RB-D	2011	2SC829YEL	2009	2SC821(L)	2015	2SC967	2007	2SC1162	2039
2SC712E	2009	2SC772RD	2011	2SC830	2020	2SC821K	2015	2SC968	2009	2SC1162C	2019
2SC712F	2014	2SC773	2009	2SC833BL	2014	2SC821L	2015	2SC968P	2030	2SC1162D	2019
2SC712N	2015	2SC773(E)	2009	2SC834WL	2011	2SC821M	2015	2SC968YEL	2018	2SC1162WT	2019
2SC713	2009	2SC773E	2009	2SC837	2011	2SC822	2009	2SC971	2018	2SC1166Y	2012
2SC713E	2009	2SC774	2030	2SC837K	2011	2SC822K	2009	2SC982	2016	2SC1173	2019
2SC713F	2014	2SC775	2014	2SC837L	2011	2SC822L	2015	2SC983	2008	2SC1173-0	2019
2SC714	2009	2SC778	2014	2SC837M	2011	2SC822M	2015	2SC984	2009	2SC1173-C	2019
2SC715	2009	2SC780	2008	2SC838	2011	2SC823	2014	2SC984B	2009	2SC1173R	2019
2SC715C	2015	2SC780-ORG-G	2008	2SC838-O	2011	2SC823(E)(F)	2030	2SC984C	2009	2SC1173(O)	2019
2SC715D	2014	2SC780-RED-G	2008	2SC838C	2009	2SC823E	2014	2SC985	2011	2SC1173C	2019
2SC715E	2009	2SC780-YEL-G	2008	2SC838E	2015	2SC823F	2014	2SC985A	2013	2SC1173R	2019
2SC715EV	2009	2SC780G	2008	2SC838F	2015	2SC824	2011	2SC987	2011	2SC1173X	2019
2SC715F	2009	2SC780G-O	2008	2SC838H	2011	2SC824F	2009	2SC987A	2011	2SC1173X(Y)	2019
2SC716	2015	2SC780G-R	2008	2SC838J	2015	2SC824M	2009	2SC988	2011	2SC1173XO	2018
2SC716E	2030	2SC780G-Y	2008	2SC838L	2011	2SC825	2011	2SC988A	2011	2SC1173XY	2019
2SC717	2015	2SC781	2014	2SC838M	2011	2SC826A	2008	2SC988B	2011	2SC1173Y	2019
2SC717BLK	2015	2SC784	2015	2SC838S	2009	2SC827	2011	2SC991	2009	2SC1175	2030
2SC722	2011	2SC784-BN	2038	2SC839	2009	2SC827C	2015	2SC992	2009	2SC1175CTV	2030
2SC723BL	2014	2SC784-BRN	2011	2SC839E	2009	2SC827CT	2015	2SC994	2038	2SC1175D	2030
2SC727	2008	2SC784-O	2015	2SC839F	2009	2SC827D	2015	2SC997	2038	2SC1175E	2030
2SC728	2012	2SC784-ORG	2011	2SC839H	2009	2SC827E	2015	2SC1000	2014	2SC1175F	2030
2SC730	2014	2SC784-R	2038	2SC839J	2009	2SC827E.Z	2014	2SC1000-Y	2009	2SC1180	2015
2SC731	2014	2SC784-RED	2011	2SC839JL	2009	2SC828	2011	2SC1000BL	2014	2SC1191	2019
2SC731R	2009	2SC784(BN)	2015	2SC839L	2009	2SC829	2011	2SC1000GR	2014	2SC1204	2016
2SC732	2014	2SC784BN	2015	2SC839M	2009	2SC829(O)	2015	2SC1000Y	2014	2SC1205	2016
2SC732-BL	2016	2SC784BRN	2015	2SC840	2017	2SC829(E)	2015	2SC1001	2014	2SC1205B	2011
2SC732-BLU	2016	2SC784ORN	2015	2SC840A(C)	2017	2SC829C	2014	2SC1003	2017	2SC1209	2009
2SC732-GR	2016	2SC784Q	2011	2SC840P	2017	2SC829D	2015	2SC1006	2016	2SC1209C	2030
2SC732-GRN	2016	2SC784R	2015	2SC840Q	2017	2SC829D1	2014	2SC1008	2008	2SC1210	2009
2SC732-V	2016	2SC784YEL	2015	2SC844	2009	2SC829DP	2014	2SC1009	2016	2SC1211	2008
2SC732-VIO	2016	2SC785	2016	2SC845	2014	2SC829DU	2014	2SC1010	2016	2SC1212AC	2019
2SC732BL	2014	2SC785-BN	2038	2SC847	2009	2SC829DV	2009	2SC1012	2008	2SC1213	2009
2SC732GR	2014	2SC785-BRN	2011	2SC848	2009	2SC829ED	2011	2SC1012A	2008	2SC1213A	2030
2SC732S	2014	2SC785-O	2038	2SC849	2009	2SC829F	2014	2SC1012E	2023	2SC1213AB	2030
2SC732V	2014	2SC785-ORG	2011	2SC850	2009	2SC829FK	2014	2SC1016	2018	2SC1213AC	2009
2SC732Y	2014	2SC785-R	2038	2SC853	2012	2SC829NP	2015	2SC1023	2009	2SC1213AK	2009
2SC733	2014	2SC785-RED	2011	2SC853KLM	2009	2SC930	2011	2SC1023(O)	2011	2SC1213B	2030
2SC733-BL	2016	2SC785-Y	2016	2SC853L	2009	2SC930C	2015	2SC1023Y	2015	2SC1213BC	2009
2SC733-BLU	2016	2SC785-YEL	2011	2SC856	2008	2SC930CS	2014	2SC1024	2020	2SC1213C	2018
2SC733-GR	2016	2SC785BN	2015	2SC856-02	2008	2SC930D	2015	2SC1024-D2	2017	2SC1213CD	2009
2SC733-GRN	2016	2SC785BR	2015	2SC856C	2030	2SC930E	2015	2SC1024-E	2017	2SC1213D	2018
2SC733-O	2015	2SC785R	2015	2SC857K	2021	2SC930EV	2015	2SC1025	2017	2SC1214	2030
2SC733-ORG	2016	2SC786	2011	2SC858	2015	2SC930NP	2015	2SC1026	2015	2SC1214A	2030
2SC733-Y	2016	2SC787	2015	2SC858F	2009	2SC931	2018	2SC1026(G)	2015	2SC1214B	2030
2SC733-YEL	2016	2SC788	2008	2SC858FG	2015	2SC931D	2019	2SC1026G	2015	2SC1214C	2030
2SC733B	2009	2SC789	2019	2SC858G	2015	2SC932	2018	2SC1026Y	2011	2SC1214D	2030
2SC733BL	2014	2SC789-O	2019	2SC859	2014	2SC932(E)	2019	2SC1030	2041	2SC1215	2011
2SC733BLU	2013	2SC789-R	2020	2SC859FG	2015	2SC932E	2018	2SC1030B	2041	2SC1216	2016
2SC733E	2014	2SC789-Y	2020	2SC860	2011	2SC933	2009	2SC1030C	2041	2SC1220-003	2030
2SC733ER	2014	2SC789R	2019	2SC864	2016	2SC933C	2009	2SC1032	2009	2SC1220(E)	2030
2SC733GN	2014	2SC790	2039	2SC866	2014	2SC933D	2030	2SC1032(Y)	2011	2SC1220E	2018
2SC733GR	2014	2SC790-O	2019	2SC867	2017	2SC933E	2009	2SC1032G	2015	2SC1222	2014
2SC733GRN	2013	2SC790-R	2020	2SC870	2009	2SC933F	2009	2SC1033	2009	2SC1226	2018
2SC733V	2014	2SC790-Y	2020	2SC870BLU	2031	2SC933FP	2013	2SC1035	2011	2SC1226A	2018
2SC733Y	2014	2SC790Y	2019	2SC870D	2031	2SC933G	2009	2SC1036	2011	2SC1239	2014
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2SC734-O	2030	2SC794R	2041	2SC871BLU	2031	2SC934P	2030	2SC1041	2009	2SC1244	2009
2SC734R	2030	2SC794Y	2041	2SC871E	2009	2SC935	2012	2SC1042	2009	2SC1254	2011
2SC734Y	2030	2SC796	2009	2SC871F	2009	2SC938	2009	2SC1047	2015	2SC1256	2014
2SC735	2016	2SC797	2009	2SC871G	2014	2SC938-O	2009	2SC1047B	2011	2SC1280A	2016
2SC735-GR	2016	2SC798	2030	2SC875	2030	2SC938R	2009	2SC1047C	2009	2SC1285	2016
2SC735-GRN	2016	2SC800	2038	2SC875(D)	2030	2SC939	2009	2SC1048	2008	2SC1283	2016
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2SC735-ORG	2016	2SC805	2009	2SC875(F)	2030	2SC941-O	2014	2SC1048D	2008	2SC1310	2016
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2SC735-Y	2016	2SC815K	2009	2SC876F	2030	2SC941K	2009	2SC1056	2008	2SC1312E	2009
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2SC736	2041	2SC816	2030	2SC876TVF	2009	2SC944	2009	2SC1060D	2019	2SC1312Y	2014
2SC738	2011	2SC821	2009	2SC881	2012	2SC944K	2009	2SC1061	2019	2SC1314	2016
2SC738C	2011	2SC822	2014	2SC890	2009	2SC945	2014	2SC1061(C)	2018	2SC1315	2038
2SC739	2011	2SC823	2011	2SC894	2011	2SC945-O	2014	2SC1061B	2019	2SC1317	2009
2SC740	2011	2SC826	2012	2SC896	2016	2SC945A	2014	2SC1061C	2019	2SC1318	2030
2SC741	2009	2SC827	2012	2SC897	2041	2SC945AP	2014	2SC1061K	2038	2SC1318P	2030
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2SC752-YEL-G	2016	2SC828A(P)	2009	2SC900A	2014	2SC945K	2014	2SC1072	2012	2SC1320K	2015
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2SC752G-Y	2016	2SC828AQ	2014	2SC900M	2014	2SC945M	2014	2SC1098	2018	2SC1327T	2014
2SC761	2011	2SC828AR	2009	2SC900U	2009	2SC945P	2014	2SC1103(A)	2008	2SC1327TU	2014
2SC762	2011	2SC828AS	2030	2SC903	2016	2SC945Q	2014	2SC1103(L)	2008	2SC1327U	2014
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2SC1342(A)	2015	2SC1633	2014	2SD77A	2002	2SD215	2002	2SD406	2008	2T75	2001
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2SC1345	2009	2SC1648	2014	2SD78	2008	2SD223	2030	2SD2350	2018	2T201	2003
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2SC1346	2038	2SC1681BL	2014	2SD81	2020	2SD226B	2017	2SF656	1059	2T230	2005
2SC1346(R)	2009	2SC1681V	2014	2SD82	2020	2SD226Q	2017	2SH20	2029	2T231	2005
2SC1347	2014	2SC1682-BL	2016	2SD82A	2030	2SD227	2009	2SH22	2029	2T311	2005
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2SC1363	2009	2SC1778	2015	2SD103-R	2020	2SD234-YEL	2020	2SK19GR	2028	2T404	2009
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2SC1364-6	2009	2SC1780	2031	2SD104	2001	2SD234G-R	2020	2SK19YEL	2035	2T682	2002
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3N23C	2002	4-2020-08000	1139	6A10622	2005	8P404M-1	2006	11B554-2	2016	13-14085-13	2009
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3N31	2002	4-2020-08600	1102	6A10855	2009	8P404T	2006	11B555-3	2016	13-14085-17	2011
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DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-
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129	2011	144-4	2008	171-015-9-001	2008	212-23	1139	260-10-049	1144	260P17002	2030
129-4	2006	144-12	2009	171-016-9-001	2008	212-27	1139	260-10-052	2008	260P17102	2009
129-5	2006	145-12	2023	172-007-9-001	2014	212-35	1139	260-10-054	2019	260P17103	2009
129-6	2006	145N1	2011	172-008-9-001	2014	212-37	1139	260-10-056	2011	260P17104	2009
129-7	2006	145N1P	2011	172-010-9-001	2019	212-51	1139	260-61-011	1144	260P17201	2011
129-8	2007	146-12	2009	172-011-9-001	2019	212-61	1139	260-61-047	1144	260P17501	2013
129-9	2003	146D1	1139	172-014-9-001	2019	212-62	1139	260-61-067	1144	260P17503	2009
129-11	2007	146N3	2009	172-014-9-003	2019	212-71	1139	260D00507	1102	260P17603	2015
129-14	2030	146T1	2006	172-024-9-005	2041	212-72	1144	260D02701	2006	260P17701	2009
129-16	2011	147N1	2009	173-1	2035	212-75	1139	260D04701	2006	260P17702	2023
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129-18	2007	147T1	2006	173A3963	2006	212-77	1139	260D05704	2011	260P18503	2014
129-21	2030	148-12	2023	173A4419-2	2006	212-79	1139	260D05707	2011	260P21001	2007
129-27	2011	148N1	2018	173A4420-5	2006	212-82	1139	260D05709	2011	260P21002	2007
129-30	2001	148N2	2016	173A4422-1	2006	212-94	1139	260D07201	2008	260P21901	2041
129-31	2005	148N3	2009	173A4424	2005	212-94B	1139	260D07412	2009	260P22001	2028
129-34	2003	149-12	2035	173A4469	2006	212-142	1144	260D07901	2015	260P22002	2028
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129N1	2011	149N2	2019	174-2	1139	215-76GE	1139	260D08201	2023	260P22101	2008
130	2009	149N4	2018	174-3	1139	217-1	2009	260D08601	2041	260P24008	2041
130-104	2006	150-12	2035	174-002-9-001	2001	218-22	2009	2			

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264D01112	1139	297V011H01	2004	314-6007-3	2016	333-1	2023	429-0910-52	2007	576-0003-010	2005
264P00401	1102	297V012H08	2004	318-2	2009	336P3A	2005	429-0958-42	2009	576-0003-011	2009
264P00801	1102	297V012H09	2004	322T1	2004	344-1	2030	429-0985-12	2015	576-0003-012	2021
264P01301	1102	297V012H10	2004	323T1	2004	344-6000-3	2009	429-0986-12	2011	576-0003-012(NPN)	2015
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264P01350	1102	297V025H04	2005	324-1	2015	344-6005-5	2009	430	2009	576-0003-017	2021
264P01508	1139	297V025H15	2005	324-0027	2003	344-6005-6	1144	430-31	1139	576-0003-018	2015
264P02001	1139	297V026H03	2004	324-0028	2003	344-6011-2	2018	430-85	2006	576-0003-019	2021
264P03001	1139	297V032H01	2005	324-0029	2005	344-6012-1	2025	430-87	2009	576-0003-020	2015
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264P03303	563	297V034H01	2004	324-0056	2007	344-6014-1B	2025	432-1	2030	576-0003-022	2009
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264P03802	1102	297V038H03	2005	324-0090	2004	344-6017-1	2023	473A31	2006	576-0003-029	2015
264P04003	564	297V038H04	2005	324-0091	2005	344-6017-2	2009	473B6-2	2005	576-0004-002	2009
264P04206	1139	297V038H05	2004	324-0092	2005	344-6017-3	2009	473B6-2A	2005	576-0004-005	2014
264P04402	1139	297V038H06	2004	324-0095	2003	344-6017-4	2030	473B6-4	2005	576-0004-006	2015
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264P08002	1139	297V040H16	2005	324-0131	2003	353-9306-003	2031	505T1	2003	576-0006-913	2014
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265Z00101	1144	297V049H01	2016	324-0142	2007	353-9319-001	2009	511-515	2009	576-2000-993	2005
266P00101(XSTR)	2009	297V049H03	2030	324-0144	2004	353-9319-002	2009	511-519	2009	586-2	2014
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276-2022/RS2022	2022	297V061C04	2030	325-0031-304	2030	393-1	2025	523-1500-883	1144	601-2	2009
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276-2024/RS2024	2024	297V061C06	2030	325-0031-306	2007	404-2(SYL)	2013	527-1	2015	601X0149-086	2009
276-2025/RS2025	2025	297V072C01	2011	325-0031-310	2030	417-18	2004	536GT	2009	601X0150-086	1102
276-2026/RS2026	2026	297V072C03	2011	325-0038-536	2005	417-29BLK	2006	546	2011	601X0151-086	1102
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276-2040/RS2040	2040	297V074C09	2030	325-0076-308	2009	417-113	2006	565-073	2019	602-61	2016
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617-54	2003	690V059H21	2003	690V114H29	2011	773RED	2009	903-45B	1102	921-36B	2006
617-55	2003	690V059H52	2005	690V114H30	2009	774	2023	903-48B	1144	921-37B	2005
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617-63	2009	690V061H88	2004	690V116H19	2011	775BRN	2015	903-52B	1139	921-40B	2005
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617-65	2011	690V066H46	2007	690V116H21	2009	776GRN	2009	903-58B	1144	921-43B	2009
617-67	2013	690V066H47	2007	690V116H22	2035	779BLU	2009	903-65B	1102	921-44B	2004
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617-69	2006	690V068H29	2003	690V116H24	2030	783RED	2015	903-72B	1144	921-46B	2030
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640-1	2018	690V084H60	2003	699(GE)	2009	800-505-00	2005	903-121B	1144	921-70B	2022
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660-225	2009	690V097H62	2011	753-2000-009	2013	823B	2013	916-31007-5B	2006	921-128B	2009
660-227	2005	690V098H48	2031	753-2000-011	2009	823WHT	2013	916-31012-6	2007	921-129B	2011
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669	2021	690V098H51	2006	753-2000-107	2030	827BRN	2015	916-31019-3B	2003	921-141B	2015
675-153	2005	690V099H79	2013	753-2000-460	2015	828GRN	2009	916-31024-3	2011	921-142B	2015
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675-155	2005	690V102H39	2001	753-2000-710	2011	829A	2021	916-31024-5	2011	921-145B	2015
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690V028H48	2011	690V103H27	2011	753-2100-002	2006	833	2032	921-2B	2003	921-160B	2023
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DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-
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2057A2-297	2009	2057A100-11	TWO2006	2057B2-138	2015	2093A41-89	1139	2400-17	1139	3026	2009
2057A2-298	2023	2057A100-12	TWO2005	2057B2-139	2015	2093A41-92	1102	2402-453	2005	3027	2011
2057A2-300	2009	2057A100-13	TWO2007	2057B2-141	2005	2093A41-96	1144	2402-454	2003	3028	2009
2057A2-301	2019	2057A100-14	2006 + 2002	2057B2-145	2018	2093A41-103	1139	2402-455	2003	3054	2017
2057A2-303	2009	2057A100-15	2005	2057B2-146	2018	2093A41-105	1144	2402-456	2006	3107-204-9000	2009
2057A2-304	2015	2057A100-17	TWO2018	2057B2-147	2005	2093A41-108	1139	2402-457	2003	3107-204-90020	2031
2057A2-305	2015	2057A100-18	2006 + 2002	2057B2-148	2003	2093A41-110	1139	2405-453	2005	3107-204-90070	2006
2057A2-306	2009	2057A100-21	2004	2057B2-149	2005	2093A41-112	1172	2405-454	2003	3107-204-90080	2015
2057A2-307	2023	2057A100-26	2041	2057B2-150	2025	2093A41-115	1139	2405-455	2003	3107-204-90100	2031
2057A2-309	2011	2057A100-34	2006	2057B2-151	2018	2093A41-116	1139	2405-456	2003	3107-204-90140	2006
2057A2-310	2011	2057A100-35 (PNP)	2006	2057B2-152	2009	2093A41-126	1139	2405-457	2003	3107-204-90180	2018
2057A2-311	2011	2057A100-41	2006	2057B2-153	2013	2093A41-129	1144	2408-326	2005	3107-204-90190	2006
2057A2-313	2011	2057A100-44	2006	2057B2-154	2009	2093A41-131	1139	2408-328	2003	3111	2013
2057A2-314	2011	2057A100-47 (NPN)	2019	2057B2-155	2009	2093A41-141	1102	2408-329	2006	3112	2005
2057A2-316	2009	2057A100-48	2006	2057B2-156	2009	2093A41-155	1144	2409-17	1144	3113	2016
2057A2-317	2006	2057A100-51	2023	2057B2-157	2003	2093A41-156	1144	2410-17	1114	3227E	2015
2057A2-319	2009	2057A100-53	2015	2057B2-158	2003	2093A41-158	1144	2411-17	1114	3370	2015
2057A2-322	2015	2057A100-62 (NPN)	2030	2057B2-159	2003	2093A41-159	582	2448-17	2009	3391	2030
2057A2-323	2015	2057B-3	2002	2057B2-160	2015	2093A41-163	582	2449-17	2014	3391 (SEARS)	2013
2057A2-324	2009	2057B2-4	2004	2057B2-161	2011	2093A41-164	1144	2450	2009	3391A (SEARS)	2013
2057A2-325	2015	2057B2-14	2009	2057B2-162	2015	2093A41-165	1144	2452-17	562	3425	2004
2057A2-326	2015	2057B2-23	2005	2057B2-163	2009	2093A41-167	1102	2454-17	1142	3434	2004
2057A2-331	2015	2057B2-27	2011	2057B2-164	2003	2093A41-169	1102	2460-13	1139	3435	2004
2057A2-332	2009	2057B2-28	2009	2057B2-165	2003	2093A41-171	1144	2474	2008	3458	2004
2057A2-333	2014	2057B2-29	2009	2057B2-166	2003	2093A41-172	1144	2487B	2005	3478	2006
2057A2-334	2014	2057B2-32	2004	2057B2-167	2002	2093A41-173	1139	2488A	2003	3500	2004
2057A2-341	2009	2057B2-34	2007	2057B2-180	2015	2093A41-181	1102	2489A	2005	3501	2030
2057A2-342	2011	2057B2-35	2003	2057B2-185	2015	2093A41-186	582	2490A	2005	3504	2004
2057A2-343	2023	2057B2-37	2003	2057B2-187	2009	2093A41-187	1102	2510-103	2009	3505	2009
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2057A2-387	2009	2057B2-49	2007	2057B2-201	2016	2093B41-37	1139	2606-286	2005	3511	2028
2057A2-390	2009	2057B2-50	2003	2057B2-203	2022	2110N-41	1144	2606-287	2005	3511 (SEARS)	2035
2057A2-391</											

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DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-
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3524(RCA)	2015	3631-1	2030	4473-3	2009	4821	2013	7116(GE)	2015	8000-00003-036	2015
3526	2019	3637-1	2041	4473-4	2009	4825	2015	7117	2011	8000-00003-037	2023
3526(RCA)	2015	3638	2019	4473-5	2009	4826	2009	7118	2009	8000-00003-040	2006
3526(SEARS)	2018	3638-1	2019	4473-5X	2013	4837	2011	7118(GE)	2031	8000-00003-044	1102
3527	2011	3651	2021	4473-6	2009	4838	2009	7122	2009	8000-00003-045	1102
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3532	2008	3665	2041	4473-11	2009	4842	2011	7126	2009	8000-00004-062	1144
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3536	2008	3681	2019	4476BLU	2005	4854	2009	7132	2015	8000-00004-066	1144
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3543	2030	3867	2009	4485-1(GE)	2022	5001-002	2009	7175	2011	8000-00004-085	2009
3544	2004	3881	2011	4486	2003	5001-014	2009	7175(GE)	2015	8000-00004-086	2002
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3545	2008	3907/2N404	2021	4491-6	2017	5001-072	2014	7178(GE)	2015	8000-00004-088	2005
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3549	2023	4001-222	2003	4509	2005	5001-120	1102	7214	2011	8000-00004-241	2041
3549-1	2023	4001-223	2003	4510	2005	5001-125	562	7215	2011	8000-00004-242	2009
3549-1(RCA)	2022	4001-224	2004	4545	2003	5001-135	1139	7216	2011	8000-00004-243	2009
3549-2	2023	4001-225	2004	4545BLU	2003	5001-144	1144	7217	2011	8000-00004-300	2009
3551	2003	4001-226	2005	4545WHT	2003	5001-145	1144	7218	2011	8000-00004-301	2009
3551A	2003	4002	2009	4553BLU	2003	5001-508	2041	7219	2011	8000-00004-P079	2015
3551ABLU	2003	4004(PENNY)	2003	4553BRN	2007	5001-509	2023	7220	2011	8000-00004-P080	2028
3551AGRN	2003	4006	2015	4553GRN	2003	5001-510	2011	7221	2011	8000-00004-P081	2035
3552	2008	4006(JOHNSON)	2009	4553ORN	2007	5093	2009	7232	2011	8000-00004-P082	2009
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3553	2009	4010	2011	4553VIO	2005	5101N60	1102	7233	2011	8000-00004-P088	2005
3554	2030	4011	1144	4553YEL	2003	5205NI	1139	7233(GE)	2015	8000-00004-P185	2018
3555	2030	4012	2030	4562	2007	5226-1	2032	7234(GE)	2015	8000-00005-001	2036
3555-3	2030	4013	2021	4563	2005	5226-2	2011	7235(GE)	2031	8000-00005-002	2011
3556	2030	4014(SEARS)	2005	4564	2005	5361-1N60P	1102	7236(GE)	2009	8000-00005-003	2011
3558	2009	4021	2009	4565	2007	5380-71	2009	7237(GE)	2009	8000-00005-004	2011
3559	2023	4022	2009	4567	2003	5380-72	2016	7261	2011	8000-00005-005	2011
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3561	2009	4041-000-40300	2015	4586	2003	5611-628(F)	2023	7318	2009	8000-00005-012	2022
3561-1	2009	4041-000-60170	2015	4589	2003	5611-673	2023	7318-1	2009	8000-00005-055	2011
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3567-2	2019	4086	2023	4604	2005	5613-458C	2009	7398-6118P1	2036	8000-00006-007	1102
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3570-1	2023	4167	2011	4608	2006	5613-460A	2009	7423	2019	8000-00006-190	2006
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3571	2030	4168	2015	4620GRN	2006	5613-460C	2015	7426	2015	8000-00006-232	562
3571-1	2009	4169	2013	4621	2003	5613-461	2015	7427	2009	8000-00006-280	2009
3571P	2021	4169(PENNY)	2015	4622	2006	5613-461(B)	2011	7428	2009	8000-00006-281	1144
3571R	2013	4247	2006	4624	2009	5613-461C	2015	7429	2009	8000-00009-089	2014
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3574	2023	4309	2016	4630	2009	5613-535(B)	2014	7431	2013	8000-00009-178	2028
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3581	2023	4347	2006	4705	2009	5613-870(F)	2009	7585	2009	8000-00011-043	562
3588	2011	4348	2005	4706	2015	5613-871(F)	2014	7586	2009	8000-00011-045	1144
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3590	2023	4363BLU	2003	4722	2006	5613-1335(E)	2014	7589	2009	8000-00011-048	2009
3591	2023	4363GRN	2003	4722BLU	2006	5613-1335D	2009	7590	2009	8000-00011-049	2009
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3608-2	2030	4456	2005	4746	2011	6151	2030	7818	2013	8000-00030-007	2009
3609	2001	4457	2005	4756	2011	6158-3(GE)	2031	7962	1139	8000-00032-025	2009
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DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-
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8302	2009	12539	2025	30217	2005	38510-164	2014	40327S	2008	40517	2011
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8304(PENNEY)	2018	12888	2022	30222	2005	38510-330	1144	40343	2020	40537	2021
8405	2034	13297	2022	30226	2030	38510-331	581	40346	2008	40538	2021
8471(SYL)	2018	15024	2006	30227	2015	38511	2011	40346L	2008	40539	2009
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8999-202	2005	25642-115	2003	35454-3	2007	40239	2015	40397	2009	40936	2019
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9011(G)	2009	25651-020	2004	35628	2007	40242	2016	40399	2009	40970	2019
9011E	2011	25651-021	2004	35677	2007	40243	2016	40400	2023	41008	2038
9011F	2009	25651-033	2004	35678	2007	40244	2016	40403	2005	41008A	2038
9012HG	2023	25655-021	2004	35728	2007	40245	2011	40404	2016	41178	2018
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9013HF	2009	25655-056	2004	35818	2004	40250	2013	40406	2025	41342	2025
9013HG	2009	25657-050	2004	35817	2004	40250V1	2013	40407	2030	41344	2019
9013HH	2009	25658-120	2006	35819	2006	40253	2004	40408	2030	41440	2032
9014(D)	2009	25658-121	2006	35820-1	2006	40254	2006	40409	2030	41500	2020
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DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-
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16112190710	2015	A2FGRN	2009	A5T4059	2023	A9T	2015	A066-116	2009	A419	2015
16112190772	2011	A2G	2011	A5T4060	2023	A9U	2015	A066-117	2018	A420	2015
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16118190634	2009	A2K	2009	A5T4123	2016	A9Y	2011	A066-119(SI)	1144	A451	2011
16156197229	2030	A2L	2011	A5T4124	2016	A01	1144	A066-143	2014	A454	2011
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16204190457	2006	A2S	2023	A5T5172	2012	A10G05-015-D	2031	A068-113	2009	A481	2015
16207190405	2006	A2SC538PQR	2009	A5T5209	2012	A12	2009	A069-101	2009	A482	2011
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16356179229	2030	A2Y	2009	A5T5223	2030	A14-1004	2005	A069-114	2015	A486	2011
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16501190016	1139	A3R	2009	A6C-2BLK	2017	A25-1001	2007	A111	2009	A640	2009
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DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-
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A645S	2016	AA133	1102	AD143R	2006	AFZ12	2003	ASY28	2001	B2	2011
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A667-GRN	2031	AC109	2005	AD150	2006	AM-G-11	1152	ASY32	2004	B2V	2019
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A667-RED	2031	AC116	2005	AD155	2006	AMF102	2020	ASY50	2004	B3	2011
A667-YEL	2031	AC117	2005	AD162	2006	AMF104	2019	ASY51	2004	B4	2011
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A668-ORG	2031	AC121	2005	AD262	2006	AMF107	2019	ASY53	2002	B5A	2005
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A669-YEL	2031	AC124	2009	ADY23	2006	AMF111	2020	ASY56	2004	B30C250KP	1172
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A747	2016	AC130	2001	AF109	2003	AMF118	2020	ASY67	2003	B134	2006
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A759	2034	AC151	2005	AF128	2004	AMF124A	2019	ASZ20	2003	B601-1010	2005
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A909-1013	2005	AC162	2005	AF137	2005	APB-11H-1010	2004	AT6A	2005	B1152A	2006
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A1238	2014	AC172	2002	AF144	2003	AR-203(R)	2030	AT11	2023	B1368	2006
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A1377	2005	AC176	2002	AF147	2003	AR5	2006	AT13	2003	B1368B	2006
A1378	2003	AC176K	2006	AF148	2003	AR6	2006	AT14	2003	B1368C	2006
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A2418	2041	ACR810-103	2003	AF186W	2005	AR200(W)	2011	AU110	2006	B3614	2020
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A2499	2013	ACY27	2005	AF202S	2005	AR218	2011	AW01-09	562	B5000-RED	2017
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B133002	2020	BC141-10	2012	BC184L	2013	BC259B	2034	BC414C	2013	BCW61BC	2034
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BAM40	2019	BC167	2013	BC213KB	2023	BC309B	2022	BC548B	2009	BCW91K	2012
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BB2A184	1139	BC169	2016	BC214	2023	BC318A	2016	BC550	2009	BCW94KA	2030
BB71	2013	BC169B	2016	BC214A	2023	BC318B	2016	BC550B	2009	BCW94KB	2030
BBIA	1139	BC169C	2009	BC214B	2023	BC318C	2016	BC550C	2009	BCW94KC	2030
BC-169-C	2009	BC170A	2016	BC214C	2023	BC319	2016	BC583	2016	BCW95	2012
BC71	2013	BC170B	2016	BC214K	2023	BC319B	2016	BC583A	2016	BCW95K	2012
BC107	2031	BC170C	2009	BC214KB	2023	BC319C	2016	BC583B	2016	BCW96	2021
BC107A	2031	BC171	2013	BC214KC	2023	BC328	2032	BC583C	2016	BCW96K	2021
BC107B	2009	BC171A	2011	BC214L	2023	BC328-16	2023	BC584	2016	BCW97	2021
BC108	2016	BC172	2015	BC214LB	2023	BC328-25	2023	BC584B	2016	BCW97K	2021
BC108A	2016	BC172A	2016	BC214LC	2023	BC328-40	2023	BC584C	2016	BCX10	2026
BC108B	2016	BC172B	2016	BC221	2034	BC336	2009	BC1073	2006	BCX18	2034
BC108C	2016	BC172C	2016	BC222	2016	BC338-16	2009	BC1073A	2006	BCX18R	2034
BC109	2016	BC173	2015	BC223A	2010	BC338-25	2009	BC1274	2006	BCX20	2016
BC109B	2030	BC173A	2015	BC223B	2010	BC338-40	2009	BC1274A	2006	BCX20R	2016
BC109C	2016	BC173B	2016	BC224	2022	BC340-6	2030	BC1274B	2006	BCX33	2030
BC110	2010	BC173C	2009	BC225	2034	BC340-06	2012	BC6500	2011	BCX34	2030
BC112	2015	BC174A	2013	BC226	2012	BC340-10	2012	BCW29	2034	BCX58IX	2009
BC113	2031	BC174B	2011	BC231A	2025	BC340-16	2012	BCW29R	2034	BCX58VII	2009
BC114	2031	BC177	2024	BC231B	2025	BC341-06	2012	BCW30	2034	BCX58VIII	2009
BC114TR	2009	BC177A	2024	BC232A	2012	BC341-10	2012	BCW30R	2034	BCX58X	2009
BC115	2013	BC177V	2023	BC232B	2012	BC360-06	2025	BCW31	2015	BCX73-16	2030
BC116	2023	BC177VI	2023	BC232M	2038	BC360-10	2025	BCW31R	2015	BCX73-25	2030
BC116A	2021	BC178	2034	BC236	2012	BC360-16	2025	BCW32	2015	BCX73-40	2030
BC117	2012	BC178A	2034	BC237A	2013	BC361-06	2043	BCW32R	2015	BCY10	2022
BC118	2031	BC178B	2034	BC237B	2013	BC361-10	2043	BCW33	2015	BCY11	2043
BC119	2012	BC178C	2034	BC238	2016	BC368	2008	BCW33R	2015	BCY12	2022
BC120	2012	BC178V	2034	BC238(PHIN)	2016	BC370	2023	BCW48	2015	BCY13	2031
BC121	2015	BC178VI	2034	BC238A	2009	BC378	2009	BCW48A	2015	BCY15	2031
BC122	2015	BC179	2034	BC238B	2009	BC381	2025	BCW48B	2015	BCY17	2022
BC123	2016	BC179A	2034	BC238C	2014	BC383	2016	BCW48C	2015	BCY18	2022
BC125	2013	BC179B	2034	BC239	2016	BC383B	2016	BCW49	2015	BCY19	2022
BC125A	2013	BC179C	2034	BC239(PHIN)	2016	BC383C	2016	BCW49B	2015	BCY21	2022
BC125B	2016	BC180	2015	BC239A	2013	BC384	2016	BCW49C	2015	BCY22	2023
BC126	2034	BC180B	2031	BC239B	2014	BC384B	2016	BCW50	2008	BCY23	2022
BC126A	2034	BC181	2022	BC239C	2016	BC384C	2016	BCW51	2016	BCY24	2022
BC129	2009	BC182A	2013	BC250A	2034	BC386A	2016	BCW52	2023	BCY25	2022
BC130	2015	BC182L	2009	BC250B	2034	BC386B	2016	BCW57B	2034	BCY26	2022
BC130A	2015	BC183	2016	BC250C	2034	BC394	2012	BCW58	2034	BCY27	2022
BC130B	2015	BC183A	2016	BC252	2034	BC395	2008	BCW58A	2034	BCY28	2022
BC130C	2015	BC183B	2016	BC252A	2034	BC405A	2021	BCW58B	2034	BCY29	2043
BC131	2015	BC183C	2016	BC252B	2034	BC405B	2024	BCW59	2034	BCY30	2023
BC131B	2015	BC183K	2016	BC252C	2034	BC406	2023	BCW59A			

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DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-
BCY34	2022	BD214-60	2043	BDY71	2020	BF273C	2038	BFS40A	2034	BFW90	2034
BCY38	2025	BD214/45	2043	BDY78	2017	BF273D	2038	BFS42	2016	BFW91	2034
BCY39	2023	BD214/60	2043	BDY80	2017	BF274B	2038	BFS43	2008	BFX12	2034
BCY40	2025	BD233	2020	BDY81	2020	BF274C	2038	BFS44	2023	BFX13	2034
BCY42	2016	BD234	2043	BDY82	2025	BF291	2009	BFS46	2038	BFX17	2014
BCY43	2016	BD235	2020	BDY83	2043	BF291A	2009	BFS46A	2038	BFX18	2016
BCY49	2023	BD236	2043	BDY87	2017	BF291B	2009	BFS55A	2013	BFX19	2016
BCY50	2009	BD239	2020	BDY88	2017	BF292	2012	BFS59	2009	BFX20	2016
BCY50I	2009	BD239A	2020	BDY89	2020	BF292A	2008	BFS60	2009	BFX21	2016
BCY51	2009	BD240	2025	BE8	2005	BF292B	2008	BFS62	2038	BFX29	2021
BCY51I	2009	BD240A	2043	BE6A	2005	BF292C	2008	BFS69	2022	BFX30	2021
BCY54	2012	BD241	2020	BE71	2013	BF302	2038	BFS99	2012	BFX31	2038
BCY56	2031	BD241A	2020	BF-180	2011	BF303	2038	BFT21	2023	BFX34	2008
BCY57	2016	BD242	2025	BF-255	2011	BF304	2038	BFT22	2024	BFX35	2023
BCY58	2038	BD242A	2043	BF71	2013	BF306	2038	BFT53	2009	BFX37	2023
BCY58A	2016	BD243	2020	BF109	2009	BF310	2016	BFT54	2009	BFX43	2038
BCY58B	2016	BD243A	2020	BF115	2016	BF310(ALGG)	2038	BFT55	2014	BFX44	2038
BCY58C	2016	BD244	2043	BF120	2012	BF311	2038	BFV10	2016	BFX45	2015
BCY58D	2016	BD244A	2043	BF121	2016	BF314	2016	BFV11	2016	BFX48	2023
BCY58IX	2038	BD245	2020	BF123	2013	BF314(ALGG)	2016	BFV12	2016	BFX50	2009
BCY58VII	2038	BD245A	2020	BF125	2016	BF322	2038	BFV14	2016	BFX52	2016
BCY58VIII	2038	BD246	2025	BF127	2013	BF329	2038	BFV17	2008	BFX53	2008
BCY58X	2038	BD246A	2043	BF152	2011	BF332	2015	BFV20	2034	BFX59	2015
BCY59	2009	BD249	2020	BF153	2011	BF333	2015	BFV21	2034	BFX59F	2009
BCY65E	2008	BD249A	2020	BF154	2016	BF334	2016	BFV27	2011	BFX60	2038
BCY69	2016	BD250	2025	BF155	1144	BF335	2016	BFV28	2011	BFX62	2011
BCY70	2023	BD250A	2043	BF156	2008	BF340	2034	BFV29	2034	BFX66	2009
BCY71	2021	BD271	2020	BF157	2008	BF341	2034	BFV30	2034	BFX73	2011
BCY71A	2034	BD272	2043	BF157B	2008	BF342	2034	BFV31	2021	BFX74	2011
BCY72	2034	BD273	2020	BF158	2011	BF343	2034	BFV32	2021	BFX75	2030
BCY77VII	2021	BD274	2043	BF159	2015	BF344	2015	BFV33	2034	BFX76	2011
BCY77VIII	2021	BD277	2043	BF160	2011	BF345	2015	BFV34	2022	BFX77	2016
BCY78	2034	BD278	2020	BF162	2015	BF355	2012	BFV35	2022	BFX84	2008
BCY78A	2022	BD291	2020	BF163	2015	BF357	2011	BFV36	2022	BFX85	2008
BCY78B	2022	BD292	2043	BF164	2015	BF362	2015	BFV37	2013	BFX86	2008
BCY78C	2022	BD293	2020	BF165	2016	BF363	2015	BFV38	2013	BFX87	2021
BCY78D	2022	BD294	2043	BF166	2038	BF364	2016	BFV40	2015	BFX88	2021
BCY79	2022	BD301	2020	BF167	2016	BF365	2016	BFV41	2011	BFX92	2013
BCY79A	2022	BD302	2043	BF168	2038	BF384	2015	BFV42	2016	BFX92A	2008
BCY79B	2022	BD303	2020	BF169	2009	BF385	2015	BFV43	2011	BFX93	2013
BCY79C	2022	BD304	2043	BF173	2011	BF414	2021	BFV44	2011	BFX94	2009
BCY87	2013	BD433	2017	BF176	2016	BF440	2034	BFV45	2018	BFX95	2009
BCY88	2013	BD433A	2019	BF179B	2008	BF441	2034	BFV46	2016	BFX95A	2009
BCY89	2013	BD433B	2019	BF179C	2008	BF450	2034	BFV47	2011	BFX96	2038
BCY90	2022	BD433C	2019	BF180	2011	BF451	2034	BFV49	2011	BFX98A	2038
BCY90B	2023	BD434	2025	BF181	2015	BF494	2016	BFV50	2016	BFX97	2038
BCY91	2022	BD434A	2027	BF182	2015	BF495	2016	BFV51	2016	BFX97A	2038
BCY91B	2023	BD434B	2027	BF183	2015	BF506	2034	BFV52	2016	BFX98	2012
BCY92	2022	BD434C	2027	BF184	2015	BF594	2016	BFV53	2016	BFY10	2008
BCY92B	2023	BD435	2017	BF185	2015	BF595	2016	BFV54	2016	BFY11	2008
BCY93	2021	BD435A	2019	BF187	2015	BF596	2009	BFV55	2009	BFY12	2009
BCY94	2021	BD435B	2019	BF188	2015	BF597	2010	BFV59	2011	BFY15	2009
BCY95	2021	BD435C N	2019	BF189	2015	BF610	2038	BFV60	2013	BFY17	2038
BCY98B	2023	BD436	2025	BF194	2015	BF611	2009	BFV61	2013	BFY18	2016
BCY77IX	2021	BD436A	2027	BF195	2015	BF624	2043	BFV62	2010	BFY19	2016
BCZ10	2022	BD436B	2027	BF196	2016	BF625	2009	BFV80	2011	BFY22	2011
BCZ11	2022	BD436C	2027	BF197	2038	BF626	2016	BFV81	2021	BFY23	2011
BCZ12	2043	BD437	2020	BF198	2015	BF628	2015	BFV81A	2021	BFY24	2011
BCZ13	2022	BD438	2043	BF199	2038	BF636	2012	BFV81B	2034	BFY25	2009
BCZ14	2022	BD439	2020	BF200	2015	BF650	2008	BFV82	2034	BFY26	2009
BD-131	2019	BD440	2043	BF200(ZENITH)	2011	BF651	2008	BFV82A	2034	BFY28	2009
BD0A	1139	BD461	2017	BF224	2009	BF652	2008	BFV82B	2034	BFY29	2013
BD3A-184	1104	BD462	2025	BF224J	2009	BFS13E	2013	BFV82C	2034	BFY30	2013
BD71	2013	BD463	2017	BF225	2009	BFS13F	2013	BFV83	2016	BFY33	2009
BD106	2017	BD464	2025	BF225J	2009	BFS13G	2013	BFV83A	2016	BFY37	2016
BD107	2020	BD533	2020	BF227	2038	BF514E	2022	BFV83B	2016	BFY37I	2009
BD115	2008	BD534	2043	BF228	2008	BFS14F	2022	BFV83C	2016	BFY38	2009
BD121	2019	BD535	2020	BF229	2015	BF514G	2022	BFV85	2009	BFY39-1	2016
BD130	2041	BD536	2043	BF230	2015	BFS15E	2013	BFV85A	2009	BFY39-2	2016
BD136	2026	BD585	2020	BF233-2	2038	BF515F	2013	BFV85B	2009	BFY39-3	2016
BD148	2020	BD586	2043	BF233-3	2038	BFS15G	2013	BFV85C	2009	BFY39I	2009
BD148-6	2020	BD587	2020	BF233-4	2038	BF516E	2022	BFV85D	2013	BFY40	2030
BD148-10	2020	BD588	2043	BF233-5	2038	BFS16F	2022	BFV85E	2013	BFY43	2008
BD148-16	2020	BD595	2020	BF233-6	2038	BFS16G	2022	BFV85F	2008	BFY47	2031
BD149-6	2020	BD596	2043	BF234	2016	BF517	2015	BFV85G	2008	BFY48	2031
BD149-10	2020	BD597	2020	BF235	2016	BFS17H	2015	BFV86	2023	BFY49	2016
BD155	2018	BD598	2043	BF237	2010	BFS18	2015	BFV86B	2023	BFY51	2014
BD162	2017	BD633	2020	BF238	2010	BFS18CA	2015	BFV87	2016	BFY51(RTCF)	2038
BD163	2020	BD634	2043	BF240	2016	BFS18R	2015	BFV88	2009	BFY52	2014
BD165	2020	BD635	2020	BF240B	2016	BFS19	2015	BFV88A	2009	BFY52(RTCF)	2038
BD166	2043	BD636	2043	BF241	2016	BFS19CB	2015	BFV88B	2008	BFY53	2008
BD167	2020	BD663A	2020	BF241C	2016	BFS19R	2015	BFV88C	2008	BFY55	2008
BD168	2043	BD663B	2020	BF241D	2016	BFS20	2015	BFV89	2013	BFY55(RTCF)	2008
BD175	2020	BD675	2020	BF245	2035	BFS20R	2015	BFV89A	2013	BFY57	2012
BD176	2043	BD676	2043	BF248	2009	BFS22	2014	BFW16	2009	BFY63	2038
BD177	2020	BD677	2020	BF249	2023	BFS23	2014	BFW16A	2009	BFY64	2021
BD178	2043	BD678	2043	BF250	2009	BFS26E	2022	BFW17	2009	BFY65	2008
BD181	2020	BD695	2020	BF251	2038	BFS26F	2022	BFW17A	2009	BFY66	2011
BD185	2017	BD696	2043	BF252	2016	BFS26G	2022	BFW24	2008	BFY67	2014
BD186	2025	BD697	2020	BF254	2015	BFS27E	2031	BFW25	2008	BFY67A	2008
BD187	2020	BD698	2043	BF254(ALGG)	2016	BFS27F	2031	BFW26	2008	BFY67C	2008
BD188	2043	BD733	2017	BF254(PHIN)	2016	BFS27G	2031	BFW29	2030	BFY68A	2008
BD189	2020	BD734	2025	BF254(SIEG)	2015	BFS29	2013	BFW30	2011	BFY69	2011
BD190	2043	BD735	2017	BF254B	2015	BFS30	2013	BFW32	2009	BFY69A	2031
BD191	2020	BD736	2025	BF255	2015	BFS31	2013	BFW33	2008	BFY69B	2031
BD192	2020	BD737	2020	BF255(ALGG)	2016	BFS31P	2016	BFW41	2011	BFY70	2014
BD201	2020	BD738	2043	BF255(PHIN)	2016	BFS34	2023	BFW42	2038	BFY72	2038
BD202	2043	BDX14	2043	BF255(SIEG)	2015	BFS34P	2023	BFW59	2016	BFY74	2008
BD203	2020	BDX18	2043	BF255C	2015	BFS36	2013	BFW60	2016	BFY76	2008
BD204	2043	BDX24	2020	BF255D	2015	BFS36A	2013	BFW63	2038	BFY77	2008
BD213-45	2020	BDY17	2041	BF260	2038	BFS37	2022	BFW64	2038	BFY78	2015
BD213-60	2020	BDY20	2041	BF261	2038	BFS37A	2022	BFW67	2008	BFY79	2016
BD213/45	2020	BDY38	2041	BF262	2011	BFS38	2016	BFW68	2008	BFY80	2008
BD213/60	2020	BDY39	2020	BF263	2015	BFS38A	2016	BFW70	2038	BFY85	2008
BD214-45	2043	BDY65	2008	BF264	2015	BFS40	2023	BFW69	2034	BFY86	2008

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DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-
BFY87	2011	BSW39	2008	BSY45	2008	C652	2038	CDC86X7-5	2015	CF-1295H	2030
BFY87A	2011	BSW39-6	2008	BSY46	2008	C673	2028	CDC430	2009	CJ-5206	2011
BFY90	2011	BSW39-10	2008	BSY48	2009	C684	2028	CDC496	2034	CJ-5207	2011
BG71	2013	BSW39-16	2008	BSY49	2009	C684A	2028	CDC587	2030	CJ-5208	2009
BH71	2013	BSW41	2009	BSY51	2030	C685	2028	CDC731	2028	CJ-5210	2030
BI71	2013	BSW42	2016	BSY52	2030	C693G	2030	CDC744	2030	CJ-5211	2009
BLW64	2020	BSW43	2016	BSY58	2038	C720	2009	CDC745	2030	CJ-5212	2009
BLY34	2009	BSW44	2034	BSY59	2034	C722	2009	CDC746	2023	CJ5206	2016
BLY61	2017	BSW45	2034	BSY61	2011	C740	2009	CDC1201BC	2018	CJ5207	2016
BLY62	2017	BSW49	2038	BSY62	2016	C742	2009	CDC1203B	2009	CJ5209	2022
BLY63	2017	BSW58	2016	BSY62A	2009	C744	2012	CDC1230B	2031	CJ5210	2030
BLY76	2020	BSW59	2011	BSY62B	2009	C760	2009	CDC2010	2009	CJ5211	2030
BP67	2013	BSW70	2012	BSY63	2009	C762	2009	CDC2010D	2009	CJ5212	2030
BP5263	2003	BSW72	2023	BSY68	2012	C764	2028	CDC2510C-G	2009	CK13	2003
BQ67	2013	BSW73	2023	BSY70	2016	C828	2031	CDC5000	2031	CK13A	2005
BR-1	1152	BSW82	2009	BSY72	2016	C828R/494	2009	CDC5000-B	2015	CK14	2005
BR67	2013	BSW83	2009	BSY73	2016	C829	2009	CDC5028A	2015	CK14A	2005
BR201A	2020	BSW84	2009	BSY74	2016	C1001	2009	CDC8000	2009	CK16	2005
BR201B	2020	BSW85	2009	BSY75	2016	C1002	2016	CDC8000-1B	2018	CK16A	2005
BR300A	2020	BSW88	2016	BSY76	2016	C1003	2008	CDC8000-1B	2009	CK17	2005
BR300B	2020	BSW88A	2016	BSY80	2016	C1004	2016	CDC8000-1C	2030	CK17A	2005
BR301A	2020	BSW88B	2016	BSY81	2030	C1222	2009	CDC8000CM	2018	CK22	2004
BR301B	2020	BSW89	2016	BSY82	2030	C1383R/494	2030	CDC8001	2009	CK22A	2005
BR400A	2020	BSW89A	2016	BSY83	2014	C1390A	2015	CDC8002	2030	CK22B	2004
BR400B	2020	BSW89B	2016	BSY89	2013	C1417C	2015	CDC8011B	2018	CK22C	2004
BR401A	2020	BSX12A	2012	BSY90	2030	C1437	2004	CDC8021	2009	CK25	2005
BR401B	2020	BSX19	2038	BSY91	2008	C1438	2004	CDC8054-1	2018	CK25A	2005
BS2	1139	BSX20	2038	BSY92	2008	C2053	2006	CDC8457	1144	CK26	2005
BS67	2013	BSX21	2008	BSY93	2009	C7076	2013	CDC9000-1C	2025	CK26A	2005
BS9011G	2009	BSX24	2016	BSY95	2011	C9080	2023	CDC9000-1D	2023	CK27	2005
BSC-1015	2017	BSX25	2016	BSY95A	2016	C9081	2023	CDC10000-1E	2023	CK27A	2005
BSC-1015A	2020	BSX26	2038	BSY168	2009	C9082	2023	CDC12000	2009	CK64	2004
BSC-1015B	2020	BSX27	2015	BT67	2013	C9083	2023	CDC12018	2018	CK64A	2004
BSC-1016	2017	BSX28	2038	BT71	2013	C9084	2023	CDC12030	2018	CK64C	2004
BSC-1016A	2020	BSX29	2015	BT929	2008	C9085	2023	CDC12077F	2016	CK65	2004
BSC-1016B	2020	BSX30	2038	BT930	2008	C10159	1104	CDC13000	2009	CK65A	2004
BSS10	2016	BSX32	2014	BTX-2367B	2009	C13901	2009	CDC13000-1B	2030	CK65B	2004
BSS19	2008	BSX33	2009	BTX068	2018	C21382	1139	CDC13000-1C	2030	CK66	2004
BSS20	2008	BSX35	2015	BTX070	2005	C36578	2030	CDC13000-1D	2011	CK66A	2004
BSS21	2015	BSX36	2023	BTX071	2001	C36579	2030	CDC13000C	2009	CK66B	2004
BSS22	2021	BSX38	2016	BTX091	2009	C36580	2030	CDC13019B	2009	CK66C	2004
BSS23	2009	BSX38A	2016	BTX097	2021	C2465076-3	2018	CDC13500-1	2018	CK67	2004
BSS26	2016	BSX38B	2016	BU67	2013	C2465077-2	2018	CDC15018	2009	CK67A	2004
BSS28	2038	BSX39	2038	BU71	2013	C2465078-1	2009	CDC25100-E	2009	CK67B	2004
BSS29	2038	BSX44	2038	BUY38	2020	C2465078-3	2009	CDC60132	2008	CK67C	2004
BSS33	2012	BSX45-6	2008	BUY41	2008	C2465079-1	2031	CDC80002-1	2009	CK83	2007
BSS38	2008	BSX45-10	2008	BUY43	2017	CA-092	562	CDG-00	1144	CK261	2002
BSS40	2009	BSX45-16	2008	BUY46	2020	CA90	1102	CDG-24	1144	CK262	2002
BSS41	2009	BSX46-6	2008	BV25	1139	CB1F4	2006	CDG00	1144	CK398	2012
BSS45	2008	BSX46-10	2008	BV67	2013	CB106	1102	CDG22	1144	CK419	2013
BSV35	2038	BSX46-16	2008	BV71	2013	CB393	1102	CDG24	1144	CK420	2013
BSV35A	2016	BSX48	2038	BW67	2013	CC1168F	2009	CDG27	1144	CK421	2013
BSV36	2038	BSX51	2016	BW71	2013	CC59018F	2011	CDJ-00	1144	CK422	2013
BSV37	2021	BSX52	2016	BX-324	2006	CCS-2006D	2011	CDQ10001	2009	CK474	2013
BSV40	2009	BSX53	2011	BX-495	2006	CCS2001H	2016	CDQ10002	2009	CK475	2013
BSV41	2009	BSX54	2011	BX67	2013	CCS2005B	2023	CDQ10003	2009	CK476	2013
BSV48A	2023	BSX60	2014	BX71	2013	CCS2008F015	2011	CDQ10004	2009	CK477	2013
BSV48B	2023	BSX61	2014	BX090	562	CCS4004	2009	CDQ10005	2009	CK706	1102
BSV49A	2023	BSX66	2016	BY67	2013	CCS6168F	2011	CDQ10006	2009	CK708A	1102
BSV49B	2023	BSX67	2016	BY71	2013	CCS6168F	2016	CDQ10008	2009	CK721	2004
BSV51	2008	BSX68	2011	BZ-12	563	CCS6168G	2011	CDQ10009	2009	CK722	2004
BSV52	2011	BSX69	2015	BZ-090	562	CCS6225F	2022	CDQ10010	2009	CK725	2004
BSV52R	2011	BSX70	2009	BZ-094	562	CCS6226G	2016	CDQ10016	2009	CK727	2007
BSV53	2016	BSX71	2009	BZ-0900	562	CCS6227F	2016	CDQ10017	2009	CK751	2004
BSV53P	2011	BSX72	2038	BZ1-9	562	CCS6227G	2016	CDQ10018	2009	CK754	2005
BSV54	2016	BSX75	2009	BZ1-90	562	CCS6228F	2023	CDQ10019	2009	CK759	2004
BSV54P	2011	BSX76	2016	BZ67	2013	CCS6229H	2030	CDQ10020	2009	CK759A	2004
BSV55	2034	BSX77	2016	BZ71	2013	CCS8017	2031	CDQ10021	2009	CK780	2005
BSV55A	2021	BSX78	2016	BZ090	562	CCS9016D	2011	CDQ10022	2009	CK760A	2004
BSV55AP	2021	BSX79	2009	BZ094	562	CCS9016E	2011	CDQ10023	2009	CK761	2005
BSV55P	2021	BSX80	2016	BZ120	563	CCS9017G925	2009	CDQ10024	2009	CK762	2005
BSV59	2009	BSX81	2016	BZ150	564	CCS9018E	2009	CDQ10026	2009	CK768	2005
BSV60	2008	BSX81A	2016	C-928	2031	CCS9018H924	2015	CDQ10027	2009	CK768A	2005
BSV65FA	2011	BSX81B	2016	C1-2-12	1139	CD-2N	1139	CDQ10032	2009	CK768	2005
BSV65FB	2011	BSX87	2009	C8-15	2021	CD-4	1138	CDQ10035	2009	CK776A	2005
BSV69	2012	BSX87A	2038	C63	2009	CD-37	1144	CDQ10036	2009	CK790	2022
BSV77	2038	BSX88	2009	C64	2009	CD-0000	1102	CDR-4	1139	CK791	2022
BSV84	2008	BSX88A	2009	C73	2005	CD-0000N	1102	CDT1309	2006	CK793	2022
BSV85	2009	BSX89	2016	C75	2005	CD-0014N	1144	CDT1310	2006	CK870	2005
BSV86	2009	BSX90	2016	C76	2005	CD37	1144	CDT1311	2006	CK871	2003
BSV87	2009	BSX91	2016	C106	2022	CD37A	1144	CDT1319	2006	CK872	2004
BSV88	2016	BSX92	2038	C111E	2016	CD0000	1102	CDT1320	2006	CK875	2004
BSV89	2009	BSX93	2038	C122	2009	CD0014	1144	CDT1321	2006	CK878	2004
BSV90	2009	BSX94A	2009	C400	2009	CD0041N	2016	CDT1322	2006	CK879	2004
BSV91	2009	BSY10	2008	C407	2008	CD1802	2017	CDT1349	2006	CK882	2004
BSV92	2038	BSY11	2008	C420	2008	CD1803	2017	CDT1349A	2006	CK888	2004
BSV95	2038	BSY17	2038	C424	2016	CD1979	2020	CDT1350	2006	CK891	2005
BSV96	2034	BSY18	2038	C425	2008	CD1984	2020	CDT1350A	2006	CK892	2005
BSV97	2034	BSY19	2009	C426	2030	CD1985	2020	CE0088	2004	CK942	2022
BSV98	2034	BSY20	2009	C428	2012	CD2035	2020	CE0089	2005	CM10-28	2020
BSW11	2011	BSY21	2009	C441	2008	CD2087	2020	CE0363/7839	2006	CQT940A	2006
BSW12	2016	BSY22	2009	C442	2014	CD2088	2020	CE0398/7839	1139	CQT940B	2006
BSW19	2016	BSY23	2009	C444	2016	CD2089	2020	CE0495/7839	1102	CQT940BA	2006
BSW19A	2034	BSY24	2030	C450	2016	CD5918	2020	CE4001B	2009	CQT1110	2006
BSW19VI	2034	BSY25	2030	C454	2011	CD5919	2020	CE4001C	2011	CQT1110A	2006
BSW20	2034	BSY26	2016	C458	2009	CD5919A	2020	CE4003D	2030	CQT1111	2006
BSW20A	2034	BSY27	2016	C460	2015	CD6105	2020	CE4003E	2009	CQT1111A	2006
BSW20VI	2034	BSY28	2016	C460B	2015	CD6105A	2020	CE4004C	2009	CQT1112	2006
BSW21	2034	BSY29	2016	C461	2015	CD8000	2030	CE4005C	2023	CR353	1144
BSW22	2034	BSY34	2009	C535	2015	CD8457	1144	CE4008B	2009	CR956	563
BSW24	2023	BSY38	2016	C537F	2030	CD12000	2030	CE4008C	2009	CR/E	1139
BSW26	2009	BSY39	2016	C555A	1738	CD86003	1144	CE4010D	2011	CRT1802	2006
BSW29	2038	BSY40	2034	C644	2031	CD860011	1144	CE4010E	2011	CRT3602A	2006
BSW32	2012	BSY41	2034	C644F/494	2014	CD860037	1144	CERT1	1139	CS-460B	2009
BSW33	2016	BSY4									

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CS-901ZHF	2023	CS1258	2009	CS9013HE	2009	CTP1550	2006	D28D2	2006	DANZ006000	1102
CS-1120C1	2011	CS1258B	2006	CS9013HF	2009	CTP1551	2006	D28D3	2008	DASZ158800	1144
CS-1120C2	2011	CS1281	2009	CS9013HG	2018	CTP1728	2006	D28D4	2008	DAT1A	2023
CS-1120D1	2011	CS1284F	2009	CS9013HH	2018	CTP1729	2006	D28D5	2008	DAT2	2023
CS-1120H	2011	CS1293	2011	CS9014	2009	CTP1730	2006	D29A4	2016	DBAZ073304	2023
CS-1201	2009	CS1294E	2022	CS9014(C)	2009	CTP1731	2006	D29A5	2016	DBCZ073304	2014
CS-1238P	2009	CS1294F	2022	CS9014B-C	2009	CTP1732	2006	D29A6	2016	DBCZ083905	2009
CS-1244X	2011	CS1294H	2022	CS9014D	2009	CTP1733	2006	D29A7	2016	DBCZ083906	2009
CS-1258	2011	CS1295E	2030	CS9014G	2018	CTP1735	2006	D29A8	2016	DBCZ094504	2014
CS-1259	2009	CS1295G	2030	CS9015	2009	CTP1736	2006	D29A9	2016	DBCZ136406	2009
CS-1294F	2023	CS1295H	2030	CS9015B	2018	CTP1739	2006	D29A12	2016	DBCZ0373000	2014
CS-1330	2011	CS1303	2023	CS9015C	2023	CTP2001-1007	2016	D29F1	2023	DC-9	2005
CS-1352	2030	CS1305	2009	CS9015C2	2023	CTP2001-1008	2016	D29F2	2023	DC-10	2003
CS-1359	2011	CS1308	2021	CS9015D	2023	CTP2010-1001	2003	D29F3	2023	DC-12	2006
CS-1361E	2011	CS1330	2009	CS9015H	2034	CTP2010-1002	2003	D29F4	2023	DC8457	1144
CS-1361F	2011	CS1330A	2009	CS9016	2011	CTP2010-1003	2005	D30A1	2022	DDAY001001	1102
CS-1361G	2009	CS1340D	2009	CS9016(G)	2011	CTP2010-1004	2005	D30A2	2022	DDAY001004	1102
CS-1372	2030	CS1340E	2009	CS9016E	2011	CTP2010-1005	2005	D30A3	2022	DDAY004001	1144
CS-1386E	2009	CS1340F	2009	CS9016EF	2009	CTP2010-1006	2005	D30A4	2022	DDAY010002	562
CS-1386H	2011	CS1340G	2011	CS9016F(TRUETONE)	2011	CTP2010-1007	2003	D30A5	2022	DDAY047001	1144
CS-2004C	2011	CS1340H	2009	CS9016F(WESTGHSE)	2011	CTP2010-1008	2003	D32K1	2009	DDAY047005	1144
CS-2005B	2023	CS1340I	2009	CS9016FG	2009	CTP2010-1009	2003	D32K2	2009	DDBY003001	2023
CS-2005C	2023	CS1341	2011	CS9016H	2011	CTP3500	2006	D32P1	2014	DDBY209003	2009
CS-2007G	2011	CS1347	2006	CS9017	2031	CTP3503	2006	D32P2	2014	DDBY216002	2015
CS-2007H	2011	CS1348	2030	CS9017F	2015	CTP3504	2006	D32P3	2014	DDBY222002	2009
CS-2008F	2011	CS1349	2009	CS9017G	2009	CTP3508	2006	D32P4	2009	DDBY224003	2014
CS-3001B	2011	CS1351	2011	CS9017H	2009	CX-0036	1102	D32S1	2009	DDBY224003	2014
CS-6168G	2009	CS1352	2030	CS9018	2011	CX-0042	1102	D32S2	2009	DDBY233001	2009
CS-6168H	2009	CS1354	2023	CS9018E	2031	CX-0045	1102	D32S3	2009	DDCY001002	2028
CS-6225E	2015	CS1360	2011	CS9018E	2011	CX-0047	1102	D32S4	2009	DDCY002002	2035
CS-6225F	2011	CS1362	2030	CS9018F	2011	CX-0048	1102	D32S5	2012	DDEY029001	1808
CS-6225G	2009	CS1363	2030	CS9018FG	2009	CX-0049	1102	D32S6	2012	DDEY030001	1801
CS-6227E	2011	CS1368D	2016	CS9018G	2011	CX-0052	563	D32S7	2012	DG1NR	1139
CS-6227F	2011	CS1370	2030	CS9019	2031	CX-0054	1139	D32S8	2012	DGM3	1102
CS-6227G	2011	CS1371	2030	CS9021G-I	2011	CZ-092	562	D32S9	2012	DHD800	1144
CS-9011	2011	CS1372	2015	CS9022LE	2030	CZ092	562	D32S10	2012	DHD805	1144
CS-9011F	2009	CS1383	2009	CS9101B	2009	D-GM-2	1102	D32W7	2008	DHD8001	1144
CS-9011G	2009	CS1453E	2030	CS9103B	2030	D1-2-12	2020	D32W8	2008	DI-1	1102
CS-9012HF	2021	CS1453G	2030	CS9103C	2030	D1D	1139	D32W9	2008	DI-8	562
CS-9013	2011	CS1463E	2018	CS9104	2009	D1E	1139	D32W10	2008	DJ61224	1102
CS-9013HE	2009	CS1555	2011	CS9124-C2	2011	D1H	1139	D32W12	2008	DJ70456	1144
CS-9013HG	2030	CS1585	2009	CS9124B1	2011	D1J	1144	D32W13	2008	DJ70488	1139
CS-9018D	2015	CS1585E/F	2009	CS9125-B1	2011	D1L	1139	D32W14	2008	DJ70542	1138
CS-9018D	2011	CS1585G	2009	CS9126	2009	D1S	563	D33D21	2009	DJ70644	1102
CS-9125B	2009	CS1585H	2015	CS9128	2023	D1Y	2009	D33D21J1	2030	DJ70645	1102
CS-12941	2009	CS1609F	2030	CS9128C1	2023	D2H	1139	D33D22	2009	DJ70646	1102
CS-90111	2009	CS1661	2011	CS9129	2023	D2T918	2011	D33D22J1	2030	DJ70695	1139
CS16E	1139	CS1664	2030	CS9129-B1	2023	D2T2218	2009	D33D22J2	2030	DJ71711	1144
CS1014A	2015	CS1665	2030	CS9129(B)	2023	D2T2218A	2009	D33D24	2008	DJ71778	1102
CS1014D	2011	CS1758	2006	CS9129B2	2009	D2T2219	2009	D33D24J1	2030	DJ71778	1136
CS1014E	2011	CS1834	2011	CS9600-4	2001	D2T2219A	2009	D33D25	2009	DJ71958	1139
CS1014F	2011	CS2001H	2016	CS9600-5	2001	D2T2904	2023	D33D25J1	2030	DJ71959	1139
CS1014G	2015	CS2004D	2009	CS9618OD	2009	D2T2905	2023	D33D26	2009	DJ71960	1144
CS1014H	2015	CS2005	2023	CS11361E	2016	D2T2905A	2023	D33D26J1	2030	DJ72163	1144
CS1120C	2009	CS2008	2009	CS11361F	2016	D3A	1144	D33D27	2009	DJ72164	1144
CS1120D	2016	CS2008G	2015	CS13401	2009	D3F	562	D33D27J1	2030	DJ72165	562
CS1120E	2016	CS2008H05A	2031	CS90144	1101	D4R	1102	D40N3	2012	DJ72166	1102
CS1120H	2018	CS2008H052	2031	CS1739	2006	D5B	564	D41D1	2026	DJ72168	1139
CS1124G	2023	CS2941	2021	CS1740	2006	D5G	1139	D41D4	2026	DJ72294	1102
CS1129E	2030	CS3906	2034	CS1741	2006	D5H	1139	D44C1	2019	DM7400	1801
CS1166-H	2001	CS4001	2011	CS1742	2006	D6	1144	D66	2003	DM7490	1808
CS1166D	2016	CS4003	2031	CS1743	2006	D6	2016	D72	1144	DND800	1144
CS1166D-G	2009	CS4005	2009	CS1744	2006	D7	2016	D009	2015	DO19	2007
CS1166E	2030	CS4006	2008	CS1745	2006	D7A30	2008	D031	2009	DO31	2009
CS1166G	2030	CS4007	2009	CS1746	2006	D7A31	2008	D048	2014	DO78	2007
CS1168E	2030	CS4012	2034	CT1012	2009	D7A32	2008	D053	2014	DO87	2011
CS1168F	2009	CS4013	2034	CT1013	2009	D7Z	1144	D069	2030	DO88	2011
CS1168G	2030	CS4021	2013	CT1018	2015	D8	2016	D072	2015	DS-1U	1139
CS1168H	2030	CS4060	2013	CT1019	2015	D05	1139	D073	2003	DS-2N	1139
CS1221F	2023	CS4061	2013	CT1020	2015	D16E7	2031	D086	2014	DS-16B	1139
CS1225E	2011	CS4062	2008	CT1021	2015	D16E9	2031	D088	2014	DS-16D	1139
CS1225F	2011	CS4193	2011	CT1122	2006	D16EC18	2030	D093	1102	DS-16E	1139
CS1225H	2030	CS4194	2011	CT1124	2006	D16G6	2011	D101B	2005	DS-16NE	1104
CS1225HF	2030	CS5995	1738	CT1124A	2006	D16K1	2015	D102	2015	DS-16NY	1139
CS1226	2011	CS6168F	2009	CT1124B	2006	D16K2	2015	D105B	2004	DS-16YA	1139
CS1227D	2009	CS6168G	2018	CTN50	1141	D16K3	2015	D126	2006	DS-17	1139
CS1227E	2011	CS6225F	2031	CTN100	1142	D16K4	2038	D133	2011	DS-25	2003
CS1227F	2011	CS6226F	2009	CTP-2001-1001	2005	D16P1	2009	D134	2005	DS-27	1102
CS1227G	2011	CS6227E	2009	CTP-2001-1002	2005	D18A9	2018	D135	2005	DS-31	1144
CS1228	2023	CS6227F	2009	CTP-2001-1003	2005	D24A3391	2016	D141	2011	DS-38	1139
CS1228E	2021	CS6228F	2023	CTP-2001-1004	2005	D24A3391A	2016	D149	2003	DS-47	2009
CS1228F	2025	CS6229F	2009	CTP-2001-1009	2003	D24A3392	2016	D171	2005	DS-66	2009
CS1229	2009	CS7229F	2030	CTP-2006-1001	2003	D24A3393	2016	D172	2005	DS-66L	2009
CS1229D	2030	CS7229G	2009	CTP-2006-1002	2005	D24A3394	2016	D173	2003	DS-67	2009
CS1229E	2016	CS9001	2011	CTP-2006-1003	2003	D24A3900	2015	D174	2005	DS-68	2021
CS1229F	2016	CS9010	2031	CTP50	1141	D24A3900A	2015	D185	2015	DS-71	2009
CS1229G	2030	CS9011	2031	CTP100	1142	D26B1	2016	D187	2005	DS-72	2009
CS1229H	2015	CS9011(E)(F)	2009	CTP1104	2006	D26B2	2038	D188	2015	DS-73	2009
CS1235C	2009	CS9011E	2009	CTP1108	2006	D26C1	2031	D190	2016	DS-74	2015
CS1235E	2009	CS9011F	2009	CTP1109	2006	D26C2	2031	D191	1139	DS-76	2030
CS1235G	2009	CS9011G	2011	CTP1111	2006	D26C3	2031	D193	2005	DS-77	2016
CS1236D	2009	CS9011H	2016	CTP1117	2006	D26C4	2031	D195	2009	DS-78	2009
CS1236H	2009	CS9011I	2009	CTP1124	2006	D26C5	2031	D200	1144	DS-79	1139
CS1238	2011	CS9012	2023	CTP1133	2006	D26E-2	2015	D292	2015	DS-81	2009
CS1238F	2030	CS9012E-F	2023	CTP1135	2006	D26E-3	2015	D352	2006	DS-82	2023
CS1238G	2030	CS9012FG	2023	CTP1136	2006	D26E-4	2015	D1101	2028	DS-83	2023
CS1238H	2011	CS9012H	2023	CTP1137	2006	D26E-5	2015	D1102	2028	DS-85	2009
CS1238I	2011	CS9012HF	2022	CTP1500	2006	D26E-6	2015	D1301	2028	DS-88	2028
CS1238P	2016	CS9012HG	2023	CTP1503	2006	D26E-7	2031	D1302	2028	DS-94	2009
CS1244J	2011	CS9012HH	2023	CTP1504	2006	D26G-1	2011	D1303	2028	DS-97	1144
CS1248B											

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DS-512	2030	DTS-517	2012	EA15X24	2009	EA15X7125	2015	EA1740	2041	ECG241	2020
DS-514	2041	DTS-518	2012	EA15X26	2006	EA15X7141	2011	EA1872	2011	ECG265	2020
DS-IM	1139	DTS-519	2012	EA15X31	2009	EA15X7173	2011	EA2131	2011	ECG266	2020
DS1K	1114	DTS-4010	2012	EA15X33	2006	EA15X7174	2011	EA2132	2011	ECG267	2017
DS1M	1139	DTS-4025	2012	EA15X35	2006	EA15X7175	2009	EA2133	2007	ECG268	2020
DS2K	1139	DTS-4026	2012	EA15X36	2005	EA15X7176	2009	EA2134	2005	ECG269	2043
DS2M	1114	DU1	2003	EA15X37	2009	EA15X7178	2011	EA2135	2006	ECG272	2020
DS3	2005	DU2	2005	EA15X38	2006	EA15X7179	2011	EA2136	2006	ECG273	2040
DS8	2004	DU3	2004	EA15X41	2003	EA15X7215	2015	EA2137	1102	ECG287	2008
DS14	2005	DU4	2005	EA15X44	2009	EA15X7228	2011	EA2140	1104	ECG313	2016
DS16	2005	DU5	2004	EA15X45	2011	EA15X7231	2015	EA2176	2003	ED-60	1102
DS16A	1139	DU6	2008	EA15X48	2011	EA15X7232	2009	EA2219	2016	ED-1402	2009
DS16E	1139	DU7	2008	EA15X49	2011	EA15X7233	2015	EA2220	2016	ED-1502C	2015
DS17	2005	DU12	2003	EA15X50	2011	EA15X7234	2015	EA2271	2009	ED31	2003
DS18	1139	DZ12	563	EA15X51	2011	EA15X7235	2011	EA2349	2009	ED46	1102
DS19	2004	E-41	1139	EA15X52	2030	EA15X7236	2009	EA2350	2009	ED51	2003
DS21	2004	E1	1139	EA15X53	2006	EA15X7243	2011	EA2351	2009	ED52	2004
DS22	2004	E1A	2009	EA15X54	2011	EA15X7244	2015	EA2352	2016	ED53	2004
DS23	2004	E1B	2020	EA15X55	2011	EA15X7245	2014	EA2353	2016	ED54B	2004
DS24	2003	E1E	2020	EA15X56	2009	EA15X7262	2011	EA2354	2002	ED55	2005
DS25	2007	E3	2014	EA15X57	2030	EA15X7264	2015	EA2355	2005	ED56	2005
DS26	2005	E4	2006	EA15X58	2030	EA15X7514	2009	EA2356	2005	ED57	2005
DS28	2003	E5	2015	EA15X59	2009	EA15X7517	2009	EA2357	2016	ED150Z	2009
DS34	2003	E09-306112	1144	EA15X60	2009	EA15X7583	2014	EA2429	2014	ED1402A/09-305066	2009
DS35	2005	E13-20-00	1139	EA15X63	2030	EA15X7586	2009	EA2489	2009	ED1402B	2009
DS36	2003	E13-000-03	2009	EA15X67	2007	EA15X7587	2011	EA2490	2030	ED1402C	2009
DS37	2003	E13-001-02	2023	EA15X68	2009	EA15X7588	2009	EA2493	2011	ED1502D	2009
DS38	2003	E13-001-03	2023	EA15X69	2021	EA15X7589	2009	EA2494	2011	ED1602C	2023
DS41	2005	E13-001-04	2023	EA15X70	2021	EA15X7592	2030	EA2495	2011	ED1702L/09-305068	2009
DS42	2003	E13-002-03	2009	EA15X71	2021	EA15X7638	2009	EA2496	2011	ED1702M	2009
DS44	2001	E13-003-00	2009	EA15X75	2009	EA15X7639	2030	EA2497	2003	ED1702N,M	2009
DS45	2016	E13-003-01	2009	EA15X76	2009	EA15X7722	2011	EA2498	2003	ED1802M	2023
DS46	2016	E13-004-00	2009	EA15X77	2009	EA15X8119	2019	EA2499	1139	ED1802N,M	2023
DS47	2016	E13-005-02	2009	EA15X83	2009	EA15X8511	2009	EA2500	563	ED219464	1102
DS51	2003	E13-006-02	2023	EA15X84	2009	EA15X8518	2009	EA2501	1139	ED224550	1139
DS52	2003	E13-010-00	2012	EA15X85	2009	EA15X8602	2019	EA2502	1102	ED494583	1139
DS53	2003	E13-011-00	2012	EA15X86	2009	EA15X8608	2011	EA2600	2011	ED514721	1144
DS55	1102	E13-012-00	2019	EA15X88	2006	EA15X8610	2011	EA2601	2011	ED515790	1144
DS56	2007	E13-017-01	1144	EA15X90	2011	EA18X27	1102	EA2602	2011	ED516420	1144
DS62	2003	E18	2008	EA15X91	2011	EA16X29	563	EA2603	2011	ED536062	1144
DS63	2003	E21	1139	EA15X94	2030	EA16X33	1139	EA2604	2011	ED560913	1144
DS64	2003	E132	2004	EA15X95	2005	EA16X34	1139	EA2605	2011	EDG-1	1102
DS65	2003	E158	2005	EA15X96	2009	EA16X39	1144	EA2606	1102	EDG-3	1102
DS66	2009	E212	2004	EA15X101	2011	EA16X48	1102	EA2607	1144	EDG-6	1102
DS67	2016	E241	2004	EA15X103	2009	EA16X49	1144	EA2738	2014	EDS-1	1144
DS68	2021	E241A	2005	EA15X111	2030	EA16X60	1144	EA2739	2009	EDS-17	1139
DS71	2015	E241B	2005	EA15X121	2017	EA16X61	1144	EA2740	2009	EDS-25	1144
DS72	2015	E0018	1102	EA15X130	2011	EA16X62	562	EA2741	1139	EDZ-2	562
DS74	2011	E0704-W	1139	EA15X131	2011	EA16X68	1144	EA2770	2009	EDZ-23	562
DS76	2009	E0771-3	562	EA15X132	2011	EA16X69	1144	EA2770(N)	2009	EF1	2028
DS78	2009	E0771-7	563	EA15X134	2011	EA16X71	1139	EA2771	2009	EF2	2028
DS81	2011	E1011	1139	EA15X135	2011	EA16X75	562	EA2812	2011	EF3	2028
DS83	2022	E1124	1139	EA15X136	2009	EA16X77	563	EA3149	2009	EL214	2030
DS130E	1139	E1176	1144	EA15X137	2009	EA16X82	562	EA3211	2014	EL232	2009
DS130ND	1139	E1176R	1144	EA15X139	2006	EA16X84	1144	EA3278	2035	EN10	2031
DS130YC	1139	E2427	2001	EA15X140	2003	EA16X97	1102	EA3447	1144	EN30	2009
DS131B	1139	E2428	2001	EA15X141	2003	EA16X101	1144	EA3713	2015	EN40	2009
DS410	1102	E2429	2001	EA15X142	2009	EA16X110	1144	EA3714	2023	EN697	2016
DS410R	1144	E2430	2016	EA15X143	2009	EA57X14	1139	EA3718	1102	EN706	2011
DS442	1144	E2435	2011	EA15X144	2011	EA0081	2030	EA3719	563	EN708	2016
DS448	1144	E2436	2009	EA15X152	2009	EA0089	2021	EA3763	2014	EN718A	2009
DS501	2008	E2441	2030	EA15X153	2030	EA0093	2011	EA3866	562	EN722	2022
DS502	2008	E2444	2009	EA15X154	2006	EA0094	2011	EA3989	1139	EN744	2011
DS503	2008	E2449	2030	EA15X157	2009	EA0095	2011	EA4112	2009	EN870	2008
DS504	2008	E2452	2009	EA15X161	2014	EA1080	2009	EAI-380	2016	EN871	2008
DS505	2008	E2455	2009	EA15X162	2009	EA1123	1102	EC961	2041	EN914	2016
DS506	2008	E2459	2009	EA15X163	2009	EA1337	2003	ECG100	2007	EN916	2016
DS513	2019	E2485	2007	EA15X165	2028	EA1338	2003	ECG101	2001	EN918	2011
DS515	2006	E2486	2002	EA15X167	2009	EA1339	2003	ECG102	2003	EN930	2013
DS520	2006	E2467	2007	EA15X168	2009	EA1340	2003	ECG102A	2003	EN956	2009
DS525	2006	E2474	2003	EA15X169	2035	EA1341	2006	ECG103	2001	EN1132	2022
DT41	2006	E2475	2003	EA15X185	2023	EA1342	2011	ECG103A	2001	EN1613	2009
DT100	2006	E2476	2007	EA15X189	2009	EA1343	2011	ECG104	2006	EN1711	2009
DT401	2006	E2477	2007	EA15X192	2028	EA1344	2009	ECG105	2006	EN2219	2016
DT1003	2012	E2478	2003	EA15X193	2028	EA1345	2009	ECG106	2023	EN2222	2016
DT1040	2006	E2479	2003	EA15X213	2009	EA1346	2005	ECG107	2015	EN2369A	2038
DT1110	2017	E2480	2007	EA15X237	2009	EA1405	1144	ECG108	2011	EN2484	2012
DT1111	2020	E2481	2007	EA15X239	2009	EA1406	2009	ECG111	1101	EN2905	2023
DT1120	2017	E2482	2005	EA15X240	2009	EA1407	2009	ECG121	2006	EN2907	2023
DT1121	2020	E2486	2018	EA15X241	2014	EA1408	2009	ECG123	2009	EN3009	2016
DT1122	2018	E2497	2018	EA15X242	2023	EA1451	2009	ECG123A	2009	EN3011	2011
DT1311	2020	E2677	2005	EA15X244	2019	EA1452	2009	ECG128	2005	EN3013	2016
DT1321	2020	E24103	2009	EA15X245	2014	EA1499	2009	ECG128	2036	EN3014	2016
DT1510	2012	E24104	2005	EA15X246	2030	EA1549	2030	ECG130	2041	EN3250	2016
DT1511	2012	E24105	2002	EA15X256	2030	EA1582	2011	ECG131	2006	EN3903	2016
DT1512	2012	E24107	2006	EA15X257	2006	EA1583	2011	ECG132	2035	EN3904	2016
DT1520	2012	EA-15X8517	2030	EA15X258	2014	EA1584	2009	ECG133	2028	EN3905	2034
DT1521	2012	EA15X1	2016	EA15X259	2014	EA1578	2009	ECG152	2020	EN3906	2034
DT1522	2012	EA15X2	2005	EA15X264	2014	EA1581	2009	ECG153	2043	EO44A	2005
DT1602	2012	EA15X3	2005	EA15X268	2023	EA1628	2009	ECG154	2006	EO65	2004
DT1603	2012	EA15X4	2005	EA15X325	2009	EA1629	2009	ECG158	2006	EO66	2004
DT1610	2012	EA15X5	2009	EA15X326	2006	EA1630	2009	ECG159	2021	EO67	2004
DT1612	2012	EA15X6	2008	EA15X327	2019	EA1661	1144	ECG160	2003	EO68	2004
DT1613	2012	EA15X7	2005	EA15X330	2009	EA1684	2030	ECG161	2011	EO70	2004
DT1621	2012	EA15X8	2005	EA15X331	2009	EA1695	2009	ECG172	2009	EO105	2004
DT3200	2020	EA15X9	2016	EA15X333	2019	EA1696	2030	ECG176	2006	EP-5619-2/7628	1139
DT3201	2020	EA15X10	2006	EA15X350	2011	EA1697	2030	ECG182	2020	EP6X10	1144
DT3301	2020	EA15X11	2003	EA15X352	2014	EA1698	2030	ECG184	2020	EP15X1	2009
DT4011	2020	EA15X12	2006	EA15X353	2014	EA1700	2006	ECG185	2043	EP15X2	2009
DT6110	2006	EA15X13	2003	EA15X354	2014	EA1703	2030	ECG186	2018	EP15X3	2030
DTG110	2006	EA15X15	2006	EA15X4084	2011	EA1716	2030	ECG191	2006	EP15X4	2021
DTG-310	2012	EA15X18	2030								

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EP15X9	2009	ES6	2002	ES50	2006	ET1550	2043	FCS9014C	2030	FT5040	2032
EP15X10	2012	ES7	2006	ES51	2025	ET1551	2043	FCS9014D	2011	FU-1M	1139
EP15X11	2019	ES8	2003	ES52	2015	ET234854	2009	FCS9015B	2023	FU-1N	1139
EP15X14	2019	ES9	2006	ES53	2016	ET329218	2009	FCS9015C	2021	FU-1NA	1139
EP15X15	2019	ES10	2006	ES54	2010	ET350335	2022	FCS9016D	2011	FU1U	1139
EP15X17	2023	ES11	2005	ES57X1	1139	ET368021	2009	FCS9016E	2009	FV-23	1102
EP15X18	2008	ES13	2006	ES57X12	1139	ET379462	2014	FCS9018E	2015	FV914	2016
EP15X19	2030	ES14	2005	ES57X14	1172	ET398711	2014	FCS9018F	2011	FV918	2011
EP15X22	2019	ES15	2003	ES58	2018	ET398777	2014	FCS9018G	2011	FV2369A	2038
EP15X26	2023	ES15X1	2005	ES60	2026	ET491051	2035	FCS9018H	2011	FV2484	2016
EP15X30	2019	ES15X4	2005	ES61	2006	ET517263	2014	FD111	1144	FV2894	2021
EP15X33	2030	ES15X7	2016	ES63	2006	ET539122	2023	FD1708	1144	FV3014	2016
EP15X48	2023	ES15X8	2005	ES65	2034	ETP2008	2012	FD1843	1144	FV3299	2016
EP15X51	2023	ES15X9	2023	ES66	2019	ETP3114	2012	FDH400	1139	FV3300	2016
EP15X53	2023	ES15X10	2016	ES67	2027	ETP3923	2012	FDH444	1139	FV3502	2023
EP15X55	2011	ES15X11	2016	ES68	2025	ETS-070	2018	FDH800	1144	FV3503	2023
EP16X3	1102	ES15X12	2016	ES73	2009	ETS071	2025	FE100	2028	FX709	2015
EP16X7	2030	ES15X14	2016	ES76	2008	ETTB75LB	2005	FE100A	2028	FX914	2016
EP16X10	1144	ES15X16	2016	ES80	2018	ETTB367B	2006	FE102	2028	FX918	2015
EP16X15	564	ES15X17	2006	ES85	2016	ETTC458LG	2009	FE102A	2028	FX2368	2016
EP16X21	1102	ES15X18	2015	ES86	2016	ETX18	2016	FE104A	2028	FX2369A	2038
EP16X22	1144	ES15X19	2015	ES87	2023	EU15X1	2009	FE400	2028	FX2463	2008
EP16X23	1144	ES15X20	2016	ES501	2006	EU15X2	2011	FE402	2028	FX2484	2008
EP20	2021	ES15X23	2016	ES503	2006	EU15X3	2015	FE402A	2028	FX2894	2021
EP25	2021	ES15X24	2016	ES1627	1144	EU15X27	2030	FE404A	2028	FX2894A	2021
EP35	2021	ES15X30	2015	ES3110	2004	EU15X34	2030	FF400	2028	FX3013	2016
EP57X1	1139	ES15X31	2005	ES3111	2004	EU16X1	1102	FHB	2020	FX3014	2016
EP57X4	1144	ES15X32	2005	ES3112	2004	EU16X2	1102	FHE	2020	FX3299	2016
EP57X5	1139	ES15X37	2016	ES3113	2004	EU16X4	1101	FK914	2016	FX3300	2016
EP57X12	1139	ES15X42	2016	ES3114	2005	EU16X14	1101	FK918	2011	FX3724	2016
EP100	2019	ES15X43	2006	ES3115	2005	EU57X40	1139	FK2369A	2038	FX3964	2022
EQA01-06S	561	ES15X48	2002	ES3116	2005	EVD-3	1144	FK2484	2008	FX4034	2034
EQA01-09	562	ES15X49	2007	ES3120	2004	EVS-828A	2013	FK2894	2021	FX4046	2016
EQB01	563	ES15X50	2007	ES3121	2004	EW162	2013	FK3014	2016	FX4207	2021
EQB01-09	562	ES15X51	2006	ES3122	2004	EW163	2009	FK3299	2016	G0Q-535-B	1139
EQB01-12	563	ES15X52	2006	ES3123	2005	EW164	2009	FK3300	2016	G1	1139
EQB01-12R	563	ES15X53	2007	ES3124	2005	EW165	2031	FK3502	2021	G00-003-A	1102
EQB01-12Z	563	ES15X55	2007	ES3125	2005	EW165V	2031	FK3962	2021	G00-004-A	1102
EQB01-15	564	ES15X56	2011	ES3126	2005	EW165Y	2009	FM211N	1139	G00-008-A	1102
EQB01-15Z	564	ES15X57	2015	ES3266	2011	EW181	2031	FM708	2009	G00-009-A	1102
EQB01-90S	562	ES15X58	2030	ES3278	2002	EW182	2031	FM709	2015	G00-012-A	1144
EQF-3	2035	ES15X59	2008	ES10110	2006	EW183	2026	FM870	2008	G00-013-B	1102
EQF-4	2028	ES15X60	2011	ES10186	2015	EW183B	2017	FM871	2008	G00-014-A	1144
EQG-15	2019	ES15X61	2003	ES10187	2011	EW212	2015	FM914	2015	G00-534-A	1139
EQG6	2006	ES15X62	2030	ES10188	2015	EYV420D1R5JB	1102	FM2368	2015	G00-535-B	1139
EQG9	2005	ES15X63	2004	ES10189	1102	EZ150	564	FM2369	2015	G00-536A	1139
EQH1	2002	ES15X64	2030	ES10222	2009	F1	2016	FM2846	2009	G00-543-A	1139
EQH20	2002	ES15X65	2011	ES10223	2009	F1E	2020	FM2894	2011	G00-803-A	1144
EQR-1	2023	ES15X66	2015	ES10224	1102	F2	2016	FM3014	2015	G01-036-G	562
EQS-9	2009	ES15X67	2009	ES10225	1102	F3	2016	FOS100	2016	G01-083-A	1144
EQS-10	2009	ES15X68	2008	ES10231	2014	F4	2016	FOS101	2016	G01-209-B	1144
EQS-11	2009	ES15X69	2008	ES10232	2009	F5	2016	FOS102	2038	G01-209B	1144
EQS-18	2015	ES15X70	2011	ES10233	1139	F14A	1139	FOS104	2009	G01-803A	1144
EQS-19	2011	ES15X71	2002	ES10234	563	F24A	2009	FPR40-1001	2009	G03-007C	2019
EQS-20	2011	ES15X72	2005	ES15046	2015	F24B	2009	FPR40-1003	2015	G03-407-Y	2023
EQS-22	2009	ES15X73	2004	ES15047	2015	F25B	2009	FPR40-1004	2005	G04-041B	2015
EQS-61	2014	ES15X74	2002	ES15048	2009	F54A	2032	FPR40-1005	2003	G05-004A	2011
EQS-62	2009	ES15X75	2006	ES15049	2014	F54E	2021	FR-1H	1139	G05-012-G	2014
EQS-64	2009	ES15X76	2009	ES15050	2009	F98N	2011	FR-2	1139	G05-035D	2014
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EQS-89	2019	ES15X79	2011	ES15054	1102	F121-603	2021	FR2-06	1139	G05-036-C	2009
EQS-100	2009	ES15X80	2009	ES15056	1139	F121-60216	2021	FRH-101	1139	G05-036-E	2009
EQS-131	2014	ES15X81	2009	ES15057	1144	F136	1102	FS1308	2011	G05-036B	2008
EQS-139	2014	ES15X87	2011	ES15226	2030	F209	2023	FS2042	2030	G05-036C	2009
EQS18	2009	ES15X88	2017	ET1	2003	F222	2009	FS2043	2009	G05-036D	2009
EQS19	2015	ES15X90	2023	ET3	2004	F302-1	2009	FS3266	2015	G05-036E	2009
EQS20	2015	ES15X92	2028	ET4	2005	F302-2	2009	FS3683	2011	G05-037B	2009
EQS21	2015	ES15X93	2030	ET5	2004	F501	2011	FS24954	2023	G05-055-C	2030
EQS22	2009	ES15X97	2015	ET6	2006	F502	2011	FS27604	2009	G05-055-E	2030
EQS131	2030	ES15X98	2011	ET7	2006	F523	2011	FS35529	2011	G05-064-A	2009
ER15X10	2006	ES15X99	2006	ET12	2003	F549-1	2023	FS326690	2015	G05-413A	2030
ER15X11	2003	ES15X101	2023	ET15X1	2005	F572-1	2016	FSP165	2015	G05-413B	2030
ER15X12	2003	ES15X102	2015	ET15X2	2015	F625-1	2030	FSP242-1	2015	G05-413C	2030
ER15X13	2003	ES15X104	2011	ET15X3	2015	F3508	2018	FT34G	2019	G05-413D	2030
ER15X14	2003	ES15X105	2011	ET15X4	2008	F3530	2011	FT34Y	2028	G08-005L	2035
ER15X15	2005	ES15X106	2011	ET15X5	2006	F3532	2015	FT45	2016	G11	2004
ER15X16	2005	ES15X107	2008	ET15X7	2031	F3535	2011	FT001	2009	G12	2005
ER15X17	2005	ES15X127	2009	ET15X8	2030	F3549	2024	FT002	2009	G13	2003
ER15X18	2005	ES15X128	2023	ET15X9	2011	F3559	2023	FT003	2009	G14	2005
ER15X19	2003	ES16X12	1102	ET15X10	2009	F3560	2011	FT004	2009	G19	2006
ER15X20	2003	ES16X14	1102	ET15X11	2009	F3561	2009	FT004A	2009	G110	2006
ER15X21	2003	ES16X20	1139	ET15X12	2009	F3565	2030	FT005	2021	G1010A	1144
ER15X22	2005	ES16X27	1144	ET15X14	2016	F3597	2022	FT006	2021	G1242	1139
ER15X23	2005	ES16X30	1144	ET15X16	2016	F4708	2015	FT008	2021	G1288	1102
ERB22-15	1139	ES16X32	1144	ET15X17	2006	F4709	2008	FT008A	2021	G8423	2008
ERB24-04B	1139	ES16X40	1144	ET15X18	2011	F7474PC	1818	FT023	2013	G8623	2009
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ERS100	2012	ES20	2013	ET15X21	2011	F9625	2011	FT026	2016	G00535	1139
ERS120	2012	ES21	2006	ET15X23	2011	F73216	2031	FT052	2021	G01036	562
ERS140	2012	ES22	2014	ET15X24	2016	FA111	1144	FT107A	2016	G01209	1144
ERS160	2012	ES23	2003	ET15X27	2009	FB-200	1173	FT118	2015	G01211	1144
ERS180	2012	ES25	2005	ET15X29	2003	FB1043	1102	FT709	2038	G01803	1144
ERS200	2012	ES26	2004	ET15X30	2011	FCD0003PC	1144	FT0019M	2024	G01803A	1144
ERS225	2012	ES29	2006	ET15X31	2005	FCD0014NCS	1144	FT1315	2015	G03007	2023
ERS250	2012	ES34	2034	ET15X32	2005	FCS9011E	2011	FT1324B	2015	G03014	2023
ERS275	2012	ES36	2017	ET15X34	2008	FCS9011F	2009	FT1324C	2015	G05036	2014
ERS301	2012	ES36X103	1102	ET15X36	2030	FCS9011G	2009	FT1341	2009	G05036E	2014
ERS325	2012	ES37	2006	ET15X37	2009	FCS9011H	2011	FT1702	2021	G05059	2014
ERV-02F2150	1139	ES41	2003	ET15X40	2006	FCS9012H	2023	FT1746	2023	G05705	2019
ES1	2005	ES44	2017	ET15X41	2009	FCS9012HE	2023	FT3567	2009	G16506	2001
ES2	2005	ES45	2017	ET15X42	2009	FCS9012HH	2023	FT3568	2008	G101079	2001
ES3	2003										

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GC181	2004	GET692	2005	GI-3793	2018	GT88	2007	HA-471	2003	HB-186	2003
GC182	2004	GET693	2005	GI-3794	2018	GT100	2007	HA-505	2026	HB-187	2005
GC282	2005	GET708	2009	GI-3900	2031	GT109	2005	HA-525	2023	HB-263	2004
GC283	2005	GET708	2009	GI-3900A	2031	GT109R	2005	HA-0054	2022	HB-270	2005
GC284	2005	GET870	2003	GI-P100-D	1139	GT122	2007	HA-00102	2007	HB-324	2005
GC285	2002	GET871	2007	GI411	1139	GT123	2005	HA-00495	2023	HB-365	2005
GC286	2002	GET872	2007	GI420	1139	GT132	2005	HA-00564	2022	HB-367	2006
GC408	2005	GET873	2007	GI6506	2001	GT153	2007	HA-00610	2023	HB-415	2006
GC460	2005	GET874	2005	GM-770	2015	GT167	2001	HA234	2003	HB-459	2005
GC461	2005	GET875	2003	GM290	2003	GT210H	2005	HA353	2003	HB-461	2007
GC462	2005	GET882	2004	GM290A	2003	GT222	2007	HA2001	2028	HB-475	2006
GC464	2005	GET883	2007	GM378	2003	GT229	2001	HA2010	2028	HB-00171	2005
GC466	2005	GET884	2003	GM378A	2003	GT364	2001	HA5001	2001	HB-00172	2005
GC520	2005	GET885	2004	GM656A	2003	GT365	2001	HA5002	2001	HB-00175	2005
GC521	2005	GET888	2005	GM770	2015	GT366	2001	HA5003	2001	HB-00176	2005
GC578	2005	GET889	2004	GME040-1	2023	GT751	2005	HA5005	2001	HB-00324	2006
GC579	2005	GET890	2005	GME0404	2023	GT758	2007	HA5009	2001	HB-00405	2006
GC580	2005	GET892	2004	GME0404-2	2023	GT759	2007	HA5010	2001	HB77	2004
GC581	2005	GET896	2004	GME1001	2009	GT759R	2005	HA5011	2001	HB367	2006
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GC809	2002	GET898	2005	GME2001	2009	GT780R	2005	HA5014	2001	HC-371	2009
GC839	2005	GET914	2009	GME2002	2031	GT781	2005	HA5016	2001	HC-372	2031
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GC841	2006	GET930	2009	GME3002	2015	GT762	2005	HA5021	2001	HC-380	2015
GC856	2005	GET931	2003	GME4001	2009	GT762R	2005	HA5022	2001	HC-381	2011
GC864	2005	GET2221	2009	GME4002	2031	GT763	2005	HA5023	2001	HC-394	2009
GC1615-1	2011	GET2221A	2009	GME4003	2031	GT766	2005	HA5024	2001	HC-454	2009
GC4022	2004	GET2222	2009	GME6003	2009	GT766A	2005	HA5025	2001	HC-458	2009
GC4045	2006	GET2222A	2009	GME9001	2015	GT792	2001	HA5026	2001	HC-460	2009
GC4062	2006	GET2369	2009	GME9002	2015	GT832	2003	HA5033	2001	HC-461	2009
GC4144	2005	GET2483	2010	GME9021	2015	GT904	2001	HA7501	2043	HC-495	2019
GC5000	2005	GET2484	2008	GME9022	2011	GT905R	2001	HA7502	2043	HC-535	2011
GD-25	1102	GET2904	2023	GMO290	2003	GT948	2001	HA7506	2025	HC-535A	2015
GD-26	1102	GET2905	2023	GMO375	2003	GT949	2001	HA7507	2032	HC-535B	2015
GD-29	1102	GET2906	2023	GMO376	2003	GT949R	2001	HA7510	2025	HC-537	2008
GD-30	1102	GET2907	2023	GMO377	2003	GT1201	2001	HA7516	2043	HC-539	2031
GD1001	1102	GET3013	2009	GMO378	2003	GT1202	2001	HA7518	2043	HC-545	2015
GD3638	1144	GET3014	2009	GMO380	2011	GT1223	2005	HA7520	2025	HC-561	2011
GE-1N5061	1139	GET3562	2015	GMO4760	2009	GT1604	2007	HA7521	2043	HC-645	2015
GE-5	2001	GET3563	2015	GO3-007C	2019	GT1605	2007	HA7522	2025	HC-668	2015
GE-8	2001	GET3638	2024	GO4-041B	2015	GT1606	2003	HA7523	2025	HC-772	2011
GE-10	2016	GET3638A	2024	GO4-701-A	2006	GT1607	2003	HA7524	2043	HC-784	2015
GE-11	2011	GET3646	2009	GO4-704-A	2006	GT1608	2001	HA7526	2025	HC-828	2009
GE-14	2041	GET3903	2016	GO4-711-E	2006	GT1609	2001	HA7527	2025	HC-829	2009
GE-17	2009	GET3904	2016	GO4-711-F	2006	GT1644	2021	HA7528	2043	HC-924	2009
GE-18	2008	GET3905	2034	GO4-711-G	2006	GT1658	2001	HA7530	2023	HC-00268	2030
GE-19	2020	GET3906	2034	GO4-711-H	2006	GT1665	2005	HA7531	2043	HC-00373	2014
GE-20	2009	GET5116	2003	GO5-003-A	2015	GT2693	2003	HA7532	2023	HC-00380	2015
GE-27	2008	GET5117	2003	GO5-003-B	2015	GT2694	2005	HA7533	2028	HC-00458	2009
GE-28	2018	GETO-50P	2008	GO5-004-A	2011	GT2695	2004	HA7534	2043	HC-00460	2011
GE-30	2006	GF20	2005	GO5-010-A	2009	GT2696	2005	HA7536	2023	HC-00461	2011
GE-47	2023	GF21	2005	GO5-011-A	2009	GT2765	2002	HA7537	2023	HC-00496	2019
GE-50	2003	GF32	2005	GO5-015-C	2009	GT2766	2002	HA7538	2043	HC-00535	2011
GE-51	2005	GF44	2003	GO5-015-D	2030	GT2768	2002	HA7541	2043	HC-00536	2014
GE-57	2020	GF45	2003	GO5-034-D	2009	GT2883	2006	HA7543	2023	HC-00537	2014
GE-58	2043	GFT3008/40	2005	GO5-035-D	2014	GT2884	2001	HA7597	2023	HC-00644	2011
GE-62	2010	GI-1N4385	1139	GO5-035-D,E	2009	GT2885	2006	HA7598	2023	HC-00668	2011
GE-64	2009	GI-2711	2015	GO5-035-E	2009	GT2886	2001	HA7599	2023	HC-00693	2009
GE-66	2011	GI-2712	2015	GO5-036-C,D,E	2009	GT2887	2006	HA7630	2023	HC-00711	2014
GE-211	2015	GI-2713	2015	GO5-036B	2009	GT2888	2001	HA7631	2043	HC-00732	2014
GE-213	2009	GI-2714	2015	GO5-036C	2009	GT2906	2001	HA7632	2023	HC-00735	2009
GE-222	2008	GI-2715	2015	GO5-036D	2009	GT3150	2001	HA7633	2043	HC-00772	2011
GE-235	2008	GI-2716	2015	GO5-036E	2009	GT5116	2003	HA7723	2040	HC-00784	2015
GE-FET-1	2028	GI-2821	2031	GO5-037B	2009	GT5117	2003	HA7725	2043	HC-00826	2009
GE-M10D	2003	GI-2822	2031	GO5-050-C	2015	GT5148	2003	HA7730	2025	HC-00829	2015
GE-X8	2001	GI-2923	2031	GO5-055-D	2030	GT5149	2003	HA7731	2043	HC-00838	2009
GE-X9	2004	GI-2924	2031	GO5-413A	2030	GT5151	2004	HA7732	2025	HC-00839	2009
GE-X10	2029	GI-2925	2031	GO6-717-B	2019	GT5153	2003	HA7733	2043	HC-00871	2009
GE-X16A1938	2013	GI-2926	2031	GO8-005L	2035	GTE1	2004	HA7734	2040	HC-00900	2014
GE1	2004	GI-3391	2031	GP2-345	1144	GTE2	2004	HA7735	2040	HC-00921	2009
GE2	2004	GI-3391A	2031	GP1622	2006	GTV	2004	HA7736	2040	HC-00923	2014
GE3	2006	GI-3392	2031	GP2354	1102	GV5760	1144	HA7737	2040	HC-00924	2009
GE5	2001	GI-3393	2031	GT1	2007	H10	2005	HA7804	2023	HC-00926	2009
GE6	2001	GI-3394	2031	GT2	2007	H12	2006	HA7806	2023	HC-00930	2015
GE7	2001	GI-3395	2031	GT3	2007	H12A	2006	HA7808	2023	HC-00945	2014
GE8	2001	GI-3396	2031	GT11	2007	H585	1139	HA7810	2023	HC-01000	2014
GE9	2003	GI-3397	2031	GT12	2007	H831	2015	HA7815	2023	HC-01047	2015
GE9A	2003	GI-3398	2031	GT13	2007	H8423	2009	HA8048	2022	HC-01060	2015
GE10	2031	GI-3402	2031	GT14	2005	H8623	2009	HA8049	2022	HC-01208	2030
GE11	2015	GI-3403	2031	GT14H	2005	H9625	2011	HA8054	2022	HC-01318	2030
GE12	2008	GI-3404	2013	GT20	2006	H9696	2009	HA8055	2022	HC-01335	2014
GE14	2018	GI-3405	2013	GT20H	2005	HA-12	2004	HA8056	2022	HC-01359	2009
GE16	2006	GI-3414	2013	GT20R	2005	HA-15	2003	HA8057	2022	HC-01390	2015
GE17	2013	GI-3415	2013	GT24H	2005	HA-30	2003	HA8058	2022	HC-01417	2009
GE18	2030	GI-3416	2010	GT31	2007	HA-32	2004	HA8059	2022	HC30	1139
GE19	2019	GI-3417	2010	GT32	2007	HA-49	2003	HA8078	2022	HC67	1139
GE20	2009	GI-3566	2013	GT33	2007	HA-52	2003	HA8079	2022	HC68	1114
GE21	2021	GI-3605	2011	GT34	2006	HA-53	2003	HA9531	2023	HC459	2009
GE22	2021	GI-3606	2011	GT40	2003	HA-102	2003	HA9531A	2023	HC460	2009
GE23	2017	GI-3607	2011	GT41	2004	HA-104	2003	HA9532	2023	HC461	2009
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GE53	2006	GI-3638A	2034	GT43	2003	HA-202	2004	HAM-1	2005	HC838	2011
GE60	2013	GI-3641	2016	GT44	2004	HA-235	2003	HB-33	2004	HC839	2011
GE61	2015	GI-3643	2016	GT45	2004	HA-235A	2003	HB-54	2005	HC00481	2006
GE62	2009	GI-3702	2034	GT46	2003	HA-235C	2003	HB-56	2003	HC1000109	1738
GE208	2003	GI-3703	2023	GT47	2003	HA-240	2003	HB-75	2005	HC1000111-0	1738
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GE6063	1144	GI-3705	2014	GT75	2005	HA-268	2003	HB-77B	2005	HC10001090	1738
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GET582	2006	GI-3709	2013	GT81R	2005	HA-353	2003	HB-172	2005	HD1000101-0	1102
GET583	2006	GI-3710	2013	GT82	2005	HA-353C	2003	HB-175	2005	HD1000105	

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HD1000302	1102	HEP737	2016	HG00644	2031	HR17	2016	HT105641D	2022	HT308301BO	2019
HD1000303	1102	HEP738	2016	HG00829	2009	HR17A	2009	HT105641H	2022	HT308291C	2011
HD2000110-0	1139	HEP739	2013	HJ15	2005	HR18	2009	HT105642B	2022	HT308291E	2015
HD2000301	1139	HEP801	2028	HJ15D	2003	HR29	2030	HT106731B	2023	HT308301C	2014
HD2000301-0	1139	HEP802	2035	HJ17	2005	HR30	2006	HT107211T	2023	HT308301D	2015
HD2000305	1139	HEP803	2037	HJ17P	2005	HR37	2030	HT200540A	2005	HT308301E	2014
HD2000501	1139	HEPS0001	2008	HJ22	2005	HR47	2014	HT200541B	2005	HT308301F	2014
HD2000510	1104	HEPS0002	2014	HJ22D	2007	HR48	2009	HT200541B-0	2005	HT308680B	2018
HD2000703	1139	HEPS0003	2014	HJ23	2005	HR50	2007	HT200561B	2007	HT309714A-O	2030
HD2000903	1139	HEPS0004	2016	HJ23D	2005	HR58	2011	HT200561C	2003	HT309841BO	2030
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HD20003010	1139	HEPS0013	2023	HJ50	2005	HR77	2015	HT203243A	2006	HT313181C	2030
HE-1N34	1102	HEPS0014	2038	HJ51	2005	HR78	2015	HT203701B	2005	HT313271T	2014
HE-1N60	1102	HEPS0015	2016	HJ54	2004	HR79	2015	HT204051E	2006	HT313272B	2014
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HE-1S446	1102	HEPS0019	2034	HJ56	2003	HR81	2015	HT204071D	2006	HT313831X	2030
HE-1024	1102	HEPS0025	2016	HJ57	2003	HR84	2023	HT204671O	2006	HT400721D	2001
HE-10002	1102	HEPS0027	2008	HJ60	2004	HR86	2019	HT204736	2006	HT400721E	2002
HE-10003	1102	HEPS0032	2022	HJ60A	2003	HR87	2011	HT204736A	2006	HT400723A	2001
HE-10024	1102	HEPS0033	2016	HJ62	2004	HR101	2006	HT303620B	2031	HT800011F	2016
HE-10025	1102	HEPS0031	2014	HJ70	2005	HRG8	2018	HT303711A	2011	HT800011G	2009
HE-10044	1136	HEPS3005	2009	HJ71	2004	HS-1168	2009	HT303711A-O	2011	HT800011H	2016
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HEP1	2003	HEPS3013	2038	HJ73	2004	HS-1226	2011	HT303711B	2009	HT800121O	2009
HEP3	2003	HEPS3027	2026	HJ74	2004	HS-1227	2011	HT303711B-0	2009	HT800131O	2018
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HEP54	2016	HEPS5008	2027	HJX2	2004	HS-40022	2016	HT303801A	2011	HT303621O	2009
HEP55	2016	HEPS5009	2027	HK-00330	2035	HS-40023	2016	HT303801AO	2015	HT303701O	2011
HEP56	2038	HEPS5010	2027	HK040519B	2006+2001	HS-40024	2016	HT303801B	2011	HT3037201	2031
HEP57	2034	HEPS5013	2025	HKT-158	2009	HS-40025	2016	HT303801B-0	2015	HT303721O	2011
HEP75	2038	HEPS5014	2020	HKT-161	2009	HS-40026	2011	HT303801B-O	2011	HT303721O-0	2009
HEP76	2021	HEPS7004	2041	NN-00002	1144	HS-40027	2023	HT303801BO	2015	HT303731O	2009
HEP200	2006	HEPS9100	2009	NN-00003	1102	HS-40031	2023	HT303801C	2011	HT303731O	2014
HEP201	2006	HEPS9101	2020	NN-00005	563	HS-40037	2009	HT303801CO	2015	HT8000410-O	2041
HEP230	2006	HEPS9102	2020	NN-00008	1139	HS-40039	2009	HT304540AO	2011	HT30373100	2009
HEP232	2006	HEPS9121	2043	NN-00012	562	HS-40040	2023	HT304540BO	2009	HT30373100	2014
HEP238	2006	HEPS9122	2043	NN-00018	1139	HS-40044	2009	HT304580B	2009	HV-15	1102
HEP242	2025	HEPS9141	2043	HP-5A	1139	HS-40045	2011	HT304580CO	2009	HV-23BL	1102
HEP243	2018	HF-1	2009	HP35860A	2013	HS-40046	2009	HT304580O	2013	HV-23G(BL)	1144
HEP245	2018	HF-1A	1139	HR-5A	1139	HS-40047	2011	HT304580YO	2009	HV-25	1144
HEP246	2026	HF-1B	1139	HR-15	2009	HS-40050	2023	HT304580Z	2009	HV-26	1139
HEP250	2004	HF-1Z	1139	HR-16	2009	HS5	2005	HT304581B	2009	HV-26G	1139
HEP251	2005	HF-2	2016	HR-17	2009	HS17D	2005	HT304581B-O	2009	HV-27	1144
HEP252	2004	HF-3	2016	HR-17A	2009	HS22D	2005	HT304581C	2009	HV-46	1139
HEP253	2004	HF-4	2016	HR-18	2009	HS23D	2005	HT304601BO	2011	HV-46GR	1139
HEP254	2005	HF-5	2009	HR-19	2009	HS5810	2012	HT304601CO	2011	HV-80	1144
HEP280	2006	HF-6	2009	HR-28	2018	HS5811	2025	HT304611B	2011	HV12	2005
HEP310	2029	HF-7	2016	HR-29	2018	HS5812	2012	HT304611C	2009	HV15	2005
HEP623	2006	HF-8	2016	HR-30	2005	HS5813	2025	HT304941X	2041	HV16	2005
HEP624	2006	HF-20004	562	HR-36	2009	HS5814	2012	HT304971A	2030	HV17	2004
HEP625	2006	HF-20008	1102	HR-37	2016	HS5815	2040	HT304971AO	2030	HV17B	2005
HEP628	2006	HF-20014	1144	HR-38	2030	HS5816	2012	HT304971B	2030	HV19	2005
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HEP630	2005	HF-20042	1139	HR-40	2001	HS5818	2012	HT305361E	2009	HV0000105	1144
HEP631	2007	HF-20047	1139	HR-43	2003	HS5819	2040	HT305361G	2009	HV0000105-0	1139
HEP632	2004	HF-20048	1144	HR-44	2003	HS5820	2012	HT305371E	2009	HV0000202	1102
HEP633	2005	HF-20050	1139	HR-45	2001	HS5821	2043	HT305642B	2022	HV0000405	1144
HEP634	2003	HF-20052	1139	HR-47	2009	HS5822	2012	HT306441A	2009	HV0000405-0	2005
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HEP636	2005	HF-20061	1144	HR-50	2004	HS40049	2011	HT306441B	2009	HV00001050	1102
HEP637	2003	HF-20063	1144	HR-58	2009	HS75001	2016	HT306441B-O	2009	HX-50001	2009
HEP638	2005	HF-20064	1144	HR-59	2009	HS77401	2020	HT306441BO	2009	HX-50002	2018
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HEP640	2006	HF-20067	1139	HR-61	2007	HS77411	2020	HT306442A	2014	HX-50063	2009
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HEP642	2006	HF-20083	1139	HR-63	2016	HS77414	2020	HT306451A	2011	HX-50102	1059
HEP643	2006	HF-20084	1139	HR-64	2016	HS77415	2020	HT306451B	2011	HX-50105	2023
HEP700	2040	HF-20095	1144	HR-65	2018	HS77417	2020	HT306681C	2011	HX-50107	2014
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HEP702	2025	HF-MV2	1144	HR-67F	2018	HT100	2022	HT307321A	2009	HX-50113	2009
HEP703	2017	HF3H	2004	HR-68	2018	HT101	2022	HT307321B-O	2009	HZ-6B	561
HEP704	2041	HF3M	2004	HR-71	2023	HT400	2013	HT307322A	2009	HZ-9	562
HEP705	2027	HF6H	2005	HR-84	2023	HT401	2013	HT307331B	2009	HZ-12	563
HEP706	2008	HF6M	2004	HR-101	2006	HT04951B-O	2023	HT307331CO	2009	HZ-12A	563
HEP708	2021	HF12H	2005	HR-101A	2006	HT20771B	2005	HT307341B	2009	HZ-12B	563
HEP709	2038	HF12M	2004	HR-101C	2006	HT30491C	2030	HT307341C-O	2009	IS38	1139
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HEP716	2034	HF20H	2005	HR-101F	2006	HT040519C-D	2006+02	HT307342C	2030	IC743038	2038
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HEP718	2038	HF35	2003	HR-40336	2003	HT101011X	2005	HT307721C	2015	IC743042	2009
HEP719	2038	HF40	2008	HR-40836	2003	HT101021A	2005	HT307721D	2015	IC743046	2019
HEP720	2015	HF47	2023	HR-40837	2003	HT102341B	2003	HT307902B	2019	IC743047	562
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HEP722	2016	HF50H	2005	HR-45838	2003	HT102351A	2003	HT308281C	2009	IC743050	1102
HEP723	2016	HF50M	2005	HR-45910	2003	HT103501A	2003	HT308281D	2014	IC743051	1144
HEP724	2016	HF57	2019	HR-45913	2003	HT104941B-O	2023	HT308281G	2009	ICC50	2009
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HEP728	2016	HF200191AO	2028	HR4	2004	HT104951A-O	2023	HT308282A-O	2009	ICC230	2006
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ICCS3001	2014	J24648	2031	JR10	2005	LDA400MP	2009	M21CR	1067	M4363	2003
ICF-1	1738	J24658	2009	JR15	2005	LDA401	2009	M23C	1067	M4363BLU	2003
IF65	2005	J24701	2015	JR30	2003	LDA401MP	2009	M24A	2009	M4363GRN	2003
IP20-0001	2009	J24752	2021	JR30X	2005	LDA402	2009	M24B	2011	M4363ORN	2003
IP20-0002	2009	J24753	2021	JR40	2006	LDA403	2009	M25	2015	M4363WHT	2003
IP20-0003	2009	J24754	2018 + 2026	JR100	2003	LDA404	2016	M25A	2009	M4364	2003
IP20-0004	2009	J24812	2014	JR200	2003	LDA405	2016	M25B	2015	M4365	2003
IP20-0006	2009	J24813	2011	JSP7001	2009	LDA406	2038	M25B2	2009	M4366	2005
IP20-0012	2028	J24814	2011	JX1A520B	2005	LDA410	2010	M26	1144	M4367	2005
IP20-0016	1102	J24817	2009	K4-500	2005	LDA414	2038	M48S134779	2009	M4398	2003
IP20-0019	562	J24820	1102	K4-501	2001	LDA420	2010	M54	2009	M4442	2021
IP20-0020	1102	J24832	2023	K4-505	2023	LDA450	2023	M54A	2009	M4450	2005
IP20-0021	2014	J24833	2005	K4-506	2009	LDA451	2023	M54B	2009	M4454	2005
IP20-0035	2028	J24834	2003	K4-507	2009	LDA452	2023	M54BLK	2009	M4456	2005
IP20-0039	2009	J24836	2005	K4-510	2015	LDA453	2023	M54BLU	2013	M4457	2005
IP20-0060	1102	J24842	2015	K4-520	2008	LDA454	2023	M54BRN	2009	M4462	2007
IP20-0078	2035	J24843	2015	K4-521	2008	LDA455	2023	M54C	2009	M4463	2006
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IP20-0174	1738	J24852	2011	K2507	2015	LDS203	2023	M54ORN	2009	M4468BRN	2007
IR2A	1139	J24855	2009	K4002	2015	LDS205	2038	M54RED	2015	M4469RED	2007
IR2E	1139	J24863	2011	K9682	2023	LDS206	2009	M54WHT	2013	M4470ORN	2007
IR5JA	1102	J24868	2005	K04774	2006	LDS207	2010	M54YEL	2009	M4471YEL	2007
IR20	1139	J24869	2005	KA4459	2038	LDS208	2010	M65	2021	M4472GRN	2007
IR2160	2029	J24870	2005	KA4559	2028	LDS210	2009	M65A	2021	M4473	2007
IRC20	1067	J24871	1139	KB-162G5	1104	LDS257	2024	M65B	2021	M4474YEL	2007
IRFE100	2028	J24874	2009	KB-165	1144	LD829	2013	M65C	2021	M4475GRN	2007
IRTR-54	2034	J24875	2014	KB169	1102	LD830	2013	M65D	2021	M4476	2005
IRTR-62	2009	J24877	1139	KB262	1144	LJ152(O)	2023	M65E	2021	M4477VIO	2005
IRTR-70	2038	J24878	2009	KC0-8CP11/1+12/1	1139	LJ152G	2023	M65F	2021	M4484	2003
IRTR-71	2016	J24903	2015	KC0.8C22/1	1152	LM-1129	2009	M78	2003	M4485	2003
IRTR-76	2020	J24904	2011	KC0.8CP11/1+121Y	1139	LM-1130	2009	M77	2003	M4486	2003
IRTR-77	2043	J24905	2011	KC1.3G12/1X2	1139	LM-1132	2009	M78	2003	M4501	2005
IRTR50	2006	J24906	2009	KC1.3G22/1A	1139	LM-1133	2009	M78A	2003	M4509	2005
IRTR51	2009	J24907	2009	KC2AP22/1B	1152	LM-1147	2009	M78B	2003	M4510	2005
IRTR52	2024	J24909	2009	KC2DP12/1N	1139	LM-1148	2009	M78BLK	2003	M4521	2005
IRTR53	2008	J24911	1102	KC2DP22/1B	1152	LM-1149	2023	M78C	2003	M4545	2003
IRTR54	2023	J24912	1144	KC2G11/1+12/1	1139	LM-1150	2023	M78D	2003	M4545BLU	2003
IRTR57	2017	J24913	1102	KC112A	1139	LM-1151	2023	M78GRN	2003	M4545WHT	2003
IRTR58	2025	J24914	1102	KD5000	2011	LM-1153	2023	M78RED	2003	M4548	2005
IRTR62	2009	J24915	2011	KE-262	1139	LM-1155	2009	M78YEL	2003	M4553BLU	2003
IRTR63	2009	J24916	2009	KGE41054	2030	LM-1156	2012	M84	2006	M4553BRN	2007
IRTR64	2009	J24919	1104	KGE41055	2009	LM-1157	2019	M81	2009	M4553GRN	2003
IRTR65	2014	J24920	1139	KGE41959	1102	LM-1158	1139	M81A	2015	M4553ORN	2007
IRTR70	2016	J24921	2011	KGE46109	1144	LM703E	1738	M81B	2009	M4553RED	2007
IRTR71	2016	J24923	2011	KGE46146	2014	LM703L	1738	M81BGRN	2009	M4553V10	2006
IRTR76	2018	J24932	2014	KGS1000	2004	LM703LH	1738	M81C	2009	M4553YEL	2003
IRTR87	2009	J24933	2011	KLH704	2009	LM703LN	1738	M81D	2013	M4562	2007
ISB51	2005	J24935	1139	KLH1422	2009	LM709C	017	M81E	2013	M4563	2005
IT120	2012	J24939	1139	KLH4746	2023	LM709CH	017	M81F	2013	M4564	2005
IT121	2012	J24940	1139	KLH4763	1144	LM723	009	M012	2021	M4565	2007
IT122	2013	J241015(2SC1209C)	2030	KLH4792	2015	LM723C	009	M020	2003	M4567	2003
IT124	2009	J241054	2009	KR-Q1010	2003	LM723CD	1740	M024	2021	M4570	2006
IT918	2011	J241099	2009	KR-Q1011	2005	LM723CH	009	M100	2028	M4573	2005
IT918A	2013	J241100	1139	KR-Q1012	2003	LM741	010	M101	2028	M4576	2005
IT929	2013	J241111(2SB370)	2006	KR-Q1013	2015	LM741C	010	M108	2005	M4577	2005
IT930	2013	J241142	1139	KS-05	1139	LM741CH	010	M140-3	2009	M4578	2005
IT2218	2016	J241177	2015	KS6128	2016	LM741H	010	M150-1	1144	M4582BRN	2006
IT2219	2016	J241178	2006	KS6130	2016	LM1090E	2011	M430	2009	M4583RED	2006
IT2221	2016	J241182	1144	KSD1051	2020	LM1090F	2011	M546	2015	M4584GRN	2006
IT2222	2016	J241188	2015	KSD1055	2020	LM1090G	2011	M612	2015	M4586	2003
IT2483	2010	J241189	2015	KSD1056	2020	LM1110A	2011	M613	2015	M4589	2005
IT2484	2010	J241241	2019	KSD2101	2020	LM1110B	2015	M614	2015	M4590	2021
IT2604	2043	J241250	2019	KSD2102	2020	LM1117	2014	M773RED	2009	M4594	2009
IT2904	2023	J241251	2009	KSD2103	2020	LM1117C	2014	M774ORN	2009	M4595	2004
IT2905	2023	J241253	2023	KSD3055	2020	LM1117D	2009	M775BRN	2015	M4596	2003
IT2906	2023	J241255	2030	KSD3771	2020	LM1120B	2015	M776GRN	2009	M4597	2005
IT2907	2023	J241256	2030	KSD3772	2020	LM1120C	2015	M779BLU	2009	M4597GRN	2005
ITC918A	2013	J241259	2023	KSD9707	2020	LM1123H	2011	M780WHT	2009	M4597RED	2005
IT350	1139	J241260	1139	KSP1121	2008	LM1138	2009	M783RED	2015	M4603	2005
IT413	1144	JA-H	2009	KSP1122	2008	LM1138E	2011	M784ORN	2009	M4604	2005
IT921	1144	JA-L	2009	KSP1123	2008	LM1138F	2011	M785YEL	2009	M4605	2003
IT77215	1144	JA1050	2023	KSP1124	2008	LM1138G	2011	M786	2009	M4605RED	2003
J107	2015	JA1050G	2023	KSP1125	2012	LM1138H	2011	M787BLU	2015	M4607	2003
J108	2031	JA1150	2015	KSP2391	2043	LM1138I	2011	M791	2011	M4608	2006
J139	2031	JA1200	2009	KSP2394	2043	LM1159	1144	M818WHT	2009	M4619RED	2006
J139A	2031	JA1350	2014	KT216	2016	LM1160	1139	M822	2006	M4620GRN	2006
J187	2031	JA1350B	2014	KT218F	2013	LM11403	2009	M822A	2013	M4621	2003
J685	1102	JA1350W	2014	KT600	2012	LM11404	2009	M822ABLU	2013	M4622	2006
J6816	2011	JB-00030	1139	KT600F	2012	LM1415-6	2009	M822B	2013	M4624	2009
J6880	2023	JB-00036	1104	KT600G	2012	LM1415-7	2009	M823B	2013	M4627	2003
J6997	2023	JC-00012	1139	KT600T	2012	LM1501H	2030	M823WHT	2013	M4630	2009
J24262	561	JC-00014	1139	KV1	2005	LM1540	2014	M824	2016	M4632	2003
J24458	2009	JC-00025	1104	KV4	2005	LM1540C	2014	M827BRN	2015	M4648	2006
J24561	2011	JC-00028	1139	KX-1	1144	LM1862	1139	M828GRN	2009	M4686	2005
J24562	2011	JC-00032	1139	L-417-29BLK	2006	LS52	2006	M829A	2021	M4700	2001
J24563	2011	JC-00033	1139	L-417-29GRN	2006	LS3705	2009	M829B	2021	M4705	2009
J24564	2030	JC-00037	1139	L-417-29WHT	2006	LS5484	2028	M829C	2021	M4709	2015
J24565	2030	JC-00045	1139	L4	2016	LS5485	2035	M829D	2021	M4714	2009
J24596	2011	JC-DS16E	1139	L5	2016	LT1016(E)	2011	M829E	2021	M4722	2006
J24620	2003	JC-SD1Z	1139	L6	2016	LT1016D	2011	M829F	2021	M4722BLU	2006
J24621	2003	JC-SG005	1139	L7	2016	LT1016H	2015	M833	2021	M4722GRN	2006
J24622	2003	JD-00040	1139	L417-60	2006	LT1016T_H	2011	M836	2009	M4722ORN	2006
J24623	2003	JE1033B	2028	LS021	2005	LTE1016	2011	M844	2009	M4722RED	2006
J24624	2009	JEM1	2006	LS022	2005	LTH1016	2011	M844-8503	2009	M4722VIO	2006
J24625	2030	JEM2	2006	LS022A	2005	M-31	1139	M847BLK	2009	M4722YEL	2006
J24626	2005	JEM3	2006	LS025	2005	M-4721	2009	M936	2019	M4727	2006
J24635	2009	JEM4	2006	LS025A	2005	M-8513R	1144	M1400-1	2009	M4732	2009
J24636	2016	JEM5	2006	LS108	2005	M4	2023	M3016	1139	M4733	2011
J24637	2016	JF-1033	2028	LS121	2005	M5	2023	M3519	2013	M4734	2013
J24639	2003	JF1033S	2026	LS122	2005	M6	2023	M3567-2	2019	M4737	2009
J24640	2025	JM40	1144	LA703E	1738	M7	2023	M4313	2005	M4739	2009
J24641	2016	JP575005	1102	LB3001	1807	M21C	1				

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DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-
M4765	2009	MA894	2004	ME0404-1	2023	MJE205K	2020	MM1758	2009	MPF105	2028
M4768	2009	MA895	2004	ME0404-2	2023	MJE210	2025	MM1809	2009	MPF108	2036
M4789	2015	MA896	2005	ME0413	2022	MJE370	2025	MM1893	2008	MPF107	2026
M4792	2029	MA897	2005	ME0414	2022	MJE370K	2025	MM1941	2038	MPF151	2037
M4815	2023	MA898	2004	ME0463	2034	MJE371	2019	MM2503	2003	MPM5006	2016
M4819	2008	MA899	2004	ME1001	2009	MJE371K	2027	MM2550	2003	MPN-3401	1144
M4820	2015	MA900	2005	ME1002	2009	MJE520	2019	MM2552	2003	MPN3401	1144
M4821	2009	MA901	2004	ME1100	2008	MJE520K	2017	MM2554	2003	MPS-706	2011
M4825	2015	MA902	2004	ME1120	2008	MJE521	2017	MM3005	2008	MPS-2716	2030
M4826	2011	MA903	2004	ME1138	2008	MJE521K	2019	MM3006	2008	MPS-3583	2011
M4837	2011	MA904	2005	ME2001	2016	MJE522	2019	MM3007	2008	MPS-96301	2009
M4838	2008	MA909	2004	ME2002	2016	MJE523	2019	MM3008	2008	MPS-A05	2009
M4839	2013	MA910	2004	ME3001	2011	MJE700	2043	MM3009	2008	MPS-A09	2013
M4840	2009	MA0404	2023	ME3002	2011	MJE701	2043	MM3053	2030	MPS-A10	2016
M4841	2009	MA0404-1	2023	ME3011	2011	MJE710	2025	MM3220	2038	MPS-A12	2010
M4842	2009	MA0404-2	2023	ME4001	2013	MJE711	2043	MM3724	2038	MPS-A13	2014
M4843	2008	MA0413	2034	ME4002	2016	MJE720	2017	MM3734	2038	MPS-A14	2014
M4844	2009	MA0414	2034	ME4003	2016	MJE721	2020	MM3903	2009	MPS-A20	2016
M4845	2011	MA1700	2005	ME4003C	2009	MJE800	2020	MM3904	2009	MPS-A55	2021
M4852	2013	MA1702	2005	ME4101	2008	MJE801	2020	MM3905	2023	MPS-A70	2034
M4853	2030	MA1703	2005	ME4102	2008	MJE1090	2043	MM3906	2023	MPS-H02	2015
M4854	2009	MA1704	2005	ME4103	2016	MJE1091	2043	MM4005	2014	MPS-H07	2015
M4855	2011	MA1705	2003	ME4104	2031	MJE1100	2020	MM4008	2043	MPS-H08	2015
M4857	2011	MA1706	2005	ME5001	2015	MJE1101	2020	MM4018	2025	MPS-H10	2015
M4888A	2006	MA1707	2005	ME8001	2010	MJE1290	2027	MM4019	2025	MPS-H11	2015
M4888B	2006	MA1708	2005	ME8002	2010	MJE1291	2043	MM4020	2025	MPS-H19	2015
M4898	2009	MA4103	2016	ME8003	2014	MJE1680	2019	MM4021	2040	MPS-H20	2015
M5010	2023	MA4104	2016	ME8001	2009	MJE1661	2020	MM4052	2040	MPS-H24	2015
M5288	2006	MA4670	2008	ME8201	2015	MJE2010	2027	MM5000	2003	MPS-H30	2015
M8014	2004	MA6001	2009	ME9001	2011	MJE2011	2043	MM5001	2003	MPS-H63	2015
M8124	2003	MA8002	2009	ME9002	2015	MJE2020	2019	MM5002	2003	MPS-K20	2016
M8221	2009	MA6003	2009	ME9003	2015	MJE2021	2020	MM5005	2025	MPS-K21	2016
M8482	1101	MA8001	2030	ME9021	2016	MJE2050	2020	MM8003	2009	MPS-K22	2016
M8513	1102	MA9002	2038	ME9022	2015	MJE2090	2043	MM8004	2030	MPS-L01	2008
M8513A	1144	MA9003	2038	MF3304	2025	MJE2091	2043	MM8012	2017	MPS-L07	2015
M8513A0	1144	MAS20	2003	MFE4001	2037	MJE2100	2020	MMCM918	2011	MPS-L08	2015
M8513R	1144	MAS21	2003	MFE4008	2037	MJE2101	2020	MMCM930	2008	MPS-U51	2026
M8640	2005	MAS22	2003	MFE4009	2037	MJE2150	2025	MMCM2222	2016	MPS-U51A	2026
M8640A	2008	MAS23	2003	MFE4010	2037	MJE2370	2025	MMCM2369	2038	MPS-V01	2018
M8640E(DIO)	1144	MC-301	1144	MFE4011	2037	MJE2371	2043	MMCM2484	2008	MPS-V01A	2018
M9002	2008	MC-14011CP	2411	MHT180	2006	MJE2480	2019	MMCM2807	2023	MPS25	2011
M9032	2015	MC101	2005	MHT181	2006	MJE2481	2020	MMT70	2015	MPS363	2009
M9235	1139	MC103	2005	MHT230	2006	MJE2482	2019	MMT71	2022	MPS404	2022
M9307	2022	MC140	2020	MHT1802	2006	MJE2483	2020	MMT72	2015	MPS404A	2022
M9348	2025	MC141	2020	MHT1803	2006	MJE2480	2027	MMT73	2021	MPS706	2016
M9348-1	2011	MC160	2020	MHT1804	2006	MJE2491	2043	MMT75	2022	MPS706A	2016
M9440	2009	MC161	2020	MHT1807	2006	MJE2520	2017	MMT76	2015	MPS834	2016
M9443	2024	MC172	2043	MHT2002	2001	MJE2521	2020	MMT918	2015	MPS918	2038
M9459	2021	MC260	2020	MHT2003	2002	MJE2522	2017	MMT2222	2016	MPS1572	2023
M9481	2015	MC301	1144	MHT2004	2001	MJE2523	2020	MMT2369	2038	MPS2369	2038
M9482	2011	MC340	2017	MHT2008	2002	MJE2801	2020	MMT2907	2023	MPS2711	2013
M9484	2027	MC800	2017	MHT2009	2001	MJE2801K	2020	MMT3014	2016	MPS2712	2013
M9491	2009	MC810	2017	MHT2010	2002	MJE2901	2043	MMT3903	2016	MPS2713	2016
M9514	2023	MC7400P	1801	MHT4401	2012	MJE2901K	2043	MMT3904	2016	MPS2714	2016
M9531	2023	MC7476P	1813	MHT4402	2012	MJE2955	2043	MMT3905	2034	MPS2715	2013
M9532	2009	MC7490P	1808	MHT4411	2008	MJE2955K	2043	MMT3906	2034	MPS2716	2013
M9539	2009	MC14011CP	2411	MHT4412	2008	MJE3054	2020	MM13-B	2004	MPS2923	2031
M9556	2017	MD-34	1102	MHT4413	2008	MJE3055	2020	MM23	2006	MPS2924	2011
M9570	2009	MD-60A	1136	MHT4414	2008	MJE3055K	2020	MM23	2006	MPS2925	2009
M9571	2017	MD33	2019	MHT4415	2008	MJE3370	2025	MM24	2006	MPS2926	2016
M9582	2034	MD33A	2020	MHT4416	2008	MJE3371	2025	MM25	2006	MPS2926-BRN	2016
MA-26	1144	MD34	1102	MHT4417	2008	MJE3520	2017	MM26	2006	MPS2926-GRN	2016
MA-26-1	1139	MD34A	1102	MHT4418	2008	MJE3521	2017	MM29	2006	MPS2926-ORG	2016
MA-900	1102	MD60	1102	MHT4419	2008	MJE3740	2043	MM29BLK	2004	MPS2926-RED	2016
MA1	2003	MD420	2003	MHT4483	2018	MJE4021	2018	MM29GRN	2006	MPS2926-YEL	2016
MA23	2001	MD501	2003	MHT7401	2018	MJE4918	2025	MM29PUR	2006	MPS2926BRN	2009
MA23(B)	1102	MD501B	2003	MHT7411	2018	MJE4919	2043	MM29WHT	2004	MPS2926GRN	2009
MA23B	1102	MD2369AF	2038	MHT7414	2018	MJE4921	2017	MM32	2006	MPS2926ORN	2009
MA25A	1102	MD2369BF	2038	MHT7417	2018	MJE4922	2020	MM46	2006	MPS2926RED	2009
MA26A	1144	MD2369F	2038	MI-301	1144	MJE4923	2018	MM48	2006	MPS2926YEL	2009
MA26WA	1144	MD3133F	2023	MI1546	2011	MJE5190	2019	MM52	2005	MPS3390	2010
MA112	2008	MD3134F	2023	MJ420	2012	MJE5191	2020	MM53	2005	MPS3391	2010
MA113	2008	MDA104	1139	MJ421	2008	MJE5193	2027	MM53BLU	2003	MPS3391A	2013
MA114	2008	MDP173	1144	MJ440	2017	MJE5194	2043	MM53GRN	2003	MPS3392	2013
MA115	2008	MDS31	2003	MJ450	2043	MJE5974	2043	MM53RED	2005	MPS3393	2009
MA116	2008	MDS32	2003	MJ480	2019	MJE5975	2043	MM60	2003	MPS3394	2013
MA117	2008	MDS33	2003	MJ481	2020	MJE5977	2020	MM61	2006	MPS3395	2013
MA150	1144	MDS33A	2003	MJ490	2027	MJE5978	2020	MM63	2006	MPS3396	2013
MA161	1144	MDS33C	2003	MJ491	2043	MJE5979	2020	MM64	2006	MPS3397	2013
MA162	1144	MDS33D	2033	MJ900	2043	MJE5980	2043	MM73	2006	MPS3398	2013
MA242	1104	MDS34	2033	MJ1000	2020	MJE5981	2043	MM73BLK	2006	MPS3563	2038
MA286	2008	MDS35	2003	MJ2253	2043	MJE5983	2020	MM73WHT	2006	MPS3567	2009
MA287	2008	MDS36	2003	MJ2254	2025	MJE5984	2020	MM76	2006	MPS3568	2009
MA288	2008	MDS37	2003	MJ2267	2043	MJE5985	2020	MM184	2006	MPS3569	2008
MA393	2003	MDS38	2003	MJ2268	2043	MJE6040	2043	MP110	2006	MPS3638	2034
MA393A	2003	MDS39	2003	MJ2801	2041	MJE6043	2020	MP1509-1	2006	MPS3638A	2034
MA393B	2003	MDS40	2003	MJ2901	2043	MJE9400	2019	MP1509-2	2006	MPS3639	2021
MA393C	2003	ME-1	2009	MJ2940	2043	MJF10335	2028	MP1509-3	2006	MPS3640	2023
MA393F	2003	ME-2	2009	MJ2955	2043	NK-10-2	2035	MP1552	2006	MPS3642	2009
MA393G	2003	ME-3	2009	MJ3701	2040	NK-10-E	2028	MP1613	2006	MPS3646	2016
MA393R	2003	ME-4	1144	MJ4000	2020	NK10	2028	MP2060	2006	MPS3683	2013
MA815	2005	ME213	2016	MJ4010	2043	NK102	2028	MP2061	2006	MPS3694	2009
MA881	2005	ME213A	2016	MJ4030	2043	MM709	2009	MP2062	2006	MPS3702	2023
MA882	2005	ME216	2014	MJ4101	2020	MM1139	2003	MP2076	2006	MPS3703	2023
MA883	2005	ME217	2014	MJ4102	2017	MM1361	2015	MP5113	1139	MPS3704	2011
MA884	2005	ME501	2023	MJ4200	2020	MM1387	2015	MP8531	2025	MPS3705	2016
MA885	2004	ME502	2023	MJ4210	2043	MM1552	2020	MP8532	2025	MPS3706	2016
MA886	2004	ME503	2023	MJE-521	2019	MM1553	2020	MP8533	2025	MPS3707	2013
MA887	2005	ME511	2023	MJE105	2043	MM1601	2009	MP8534	2025	MPS3708	2013
MA888	2005	ME512	2023	MJE105K	2043	MM1612	2014	MP8535	2025	MPS3709	2013
MA889	2005	ME900	2014	MJE170	2025	MM1742	2004	MPC3500	1144	MPS3710	2013
MA890	2004	ME900A	2014	MJE180	2017	MM1748	2038	MPF-106	2028	MPS3711	2013
MA891	2005	ME901	2014	MJE181	2017	MM1755	2019	MPF102	2036	MPS3721	2013
MA892	2005	ME901A	2014	MJE200	2017	MM1756	2009	MPF103	2028	MPS3826	2009
MA893	2005	ME0404	2024								

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MPS5172	2009	MPS9623	2009	MPSH37	2016	MU739	2008	NKT42	2003	NKT452-S1	2006
MPS5305	2009	MPS9623C(F)	2015	MPSH85	2034	MV-1	1144	NKT43	2005	NKT453	2006
MPS5306	2009	MPS9623E.G	2009	MPSK20	2016	MV-2	1144	NKT52	2005	NKT454	2006
MPS5306A	2009	MPS9623F	2009	MPSK21	2016	MV-3	1144	NKT53	2005	NKT552	2006
MPS5307	2009	MPS9623G	2009	MPSK22	2016	MV-13(BIAS)	1139	NKT53/25	2005	NKT618	2003
MPS5308	2009	MPS9623H	2009	MPSK70	2034	MV-13(DIO)	1144	NKT54	2005	NKT675	2003
MPS5308A	2009	MPS9623I	2009	MPSK71	2034	MV3	1144	NKT54/25	2005	NKT676	2003
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MPS6555	2016	MPS9680J	2023	MS7502R	2009	NA-1114-1005	2004	NKT204	2004	NPS404	2024
MPS6560	2009	MPS9680T	2023	MS7502S	2009	NA-1114-1006	2004	NKT205	2004	NPS404A	2023
MPS6561	2009	MPS9681	2023	MS7502T	2009	NA-1114-1007	2004	NKT206	2005	NPS6512	2009
MPS6562	2023	MPS9681J	2023	MS7503R	2016	NA-1114-1008	2004	NKT207	2005	NPS6513	2009
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MPS8000	2012	MPSA20-GRN	2016	MST25	2008	NA5018-1220	2005	NKT244	2005	NR7916	2035
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MPS9423I	2011	MPSA70-RED	2034	MT0412	2022	NAS42	2025	NKT263	2004	NS662	2021
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MPS9604I	2009	MPSH17	2030	MT5764	2017	NJM-703N	1738	NKT403	2006	NS1000	2021
MPS9604R	2009	MPSH19	2016	MT5765	2039	NKT4	2003	NKT404	2006	NS1001	2021
MPS9606(H.I)	1144	MPSH20	2016	MT6001	2016	NKT5	2003	NKT405	2006	NS1500	2009
MPS9616	2009	MPSH24	2038	MT6002	2016	NKT24	2003	NKT415	2006	NS1510	2009
MPS9616(J)	2009	MPSH30	2016	MT6003	2						

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DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-
NS1675	2023	OC171	2003	P1E-1VIO	2027	P218-1	2018	PL-176-042-9-003	2015	PQ30	2003
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OC80	2005	OS536G	2009	P4N	2006	PL-151-045-9-001	1139	PP3310	2020	PTC139	2018
OC81	2005	OSS-16685	1102	P4P	2032	PL-151-045-9-002	1102	PP3312	2020	PTC140	2041
OC83	2004	P-8006	1144	P4R	2034	PL-151-045-9-003	1102	PPR1006	2020	PTC150	2008
OC84	2005	P1A	2006	P4V	2034	PL-151-045-9-004	1139	PPR1008	2020	PTC151	2035
OC122	2005	P1B	2024	P4W	2025	PL-152-044-9-001	562	PPR1009	2020	PTC153	2009
OC123	2005	P1C	2021	P4W-1	2025	PL-152-051-9-001	562	PPR1010	2020	PTC154	2020
OC130	2003	P1D	2021	P4W-2	2025	PL-172-010-9-001	2019	PPR1011	2020	PTC162	2043
OC139	2001	P1E	2027	P5B	2023	PL-172-014-9-001	2019	PPR1012	2020	PTC163	2020
OC140	2002	P1E-1BLK	2027	P5C	2023	PL-176-025-9-001	2014	PPR1013	2020	Q-1A	2005
OC141	2001	P1E-1BLU	2027	P5D	2023	PL-176-029-9-002	2038	PQ27	2003	Q-5	2001
OC169	2003	P1E-1GRN	2027	P20	1139	PL-176-042-9-001	2015	PQ28	2005	Q-6	2008
OC170	2003	P1E-1RED	2027	P100D	11						

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DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-
Q-38	2021	R85	2005	RCA45190	2017	RS-280S	1144	RS5102	2005	RS7101	2015
Q-1084R	2008	R86	2005	RCA45191	2020	RS-3914	2007	RS5103	2005	RS7102	2015
Q-00189C	2035	R87	2005	RCA45193	2025	RS-3915	2007	RS5104	2004	RS7104	2015
Q-00184R	2034	R79	2002	RCA45194	2043	RS-3929	2007	RS5105	2002	RS7105	2015
Q-00246R	2015	R80	2001	RCS29	2017	RS-7108	2030	RS5106	2002	RS7106	2015
Q-00289C	2011	R87	2005	RCS29A	2020	RS-7124	2011	RS5109	2003	RS7107	2011
Q-00389C	2011	R88	2007	RCS30	2025	RS-7127	2011	RS5201	2003	RS7108	2015
Q-00384R	2009	R119	2004	RCS30A	2043	RS-7129	2011	RS5202	2005	RS7111	2009
Q-00469C	2011	R120	2005	RCS31	2017	RS-7201	2011	RS5203	2005	RS7112	2016
Q-00484R	2008	R152	2005	RCS31A	2020	RS-7212	2011	RS5204	2003	RS7113	2011
Q-00584R	2008	R183	2004	RCS32	2025	RS128	2015	RS5205	2003	RS7114	2011
Q-00589C	2011	R184	2005	RCS32A	2043	RS132	2018	RS5206	2003	RS7115	2011
Q-00689C	2009	R177	2001	RCS242	2041	RS136	2015	RS5207	2003	RS7116	2011
Q-00684R	2011	R186	2004	RD-6AM	561	RS406	2005	RS5209	2004	RS7117	2011
Q-00789C	2011	R227	2004	RD-9.1E	562	RS593	2001	RS5301	2003	RS7118	2011
Q-00784R	2009	R242	2005	RD-9A	562	RS684	2022	RS5302	2004	RS7122	2011
Q-00889C	2013	R244	2004	RD-9E	562	RS685	2002	RS5303	2004	RS7123	2016
Q-00889C	2014	R255	2005	RD-13AK	563	RS686	2002	RS5305	2003	RS7125	2011
Q-00884R	2022	R265A	2006	RD-91	562	RS687	2002	RS5306	2003	RS7126	2011
Q-01115C	2009	R290	2005	RD-91E	562	RS1192	2005	RS5311	2003	RS7127	2009
Q-01189C	2018	R291	2005	RD3A-1B4	1139	RS1428	1144	RS5312	2003	RS7135	2009
Q-01184R	2013	R324	2007	RD8.2EC	562	RS1539	2005	RS5313	2003	RS7138	2011
Q-01289C	2017	R336	2005	RD9	562	RS1540	2005	RS5401	2003	RS7140	2031
Q-01384R	2014	R337	2005	RD9.1E	562	RS1541	2005	RS5402	2004	RS7142	2011
Q-02115C	2009	R338	2005	RD9.1EB	562	RS1542	2005	RS5403	2004	RS7143	2031
Q-03115C	2009	R339	2005	RD9.1FB	562	RS1543	2005	RS5406	2005	RS7144	2030
Q-04115C	2009	R424-1	2005	RD9A	562	RS1544	2005	RS5502	2005	RS7173	2011
Q-05115C	2009	R425	2005	RD12	563	RS1546	2005	RS5503	2005	RS7174	2011
Q-06115C	2009	R428	2005	RD12EB	563	RS1548	2005	RS5504	2005	RS7175	2011
Q-07115C	2009	R488	2004	RD15E	564	RS1550	2002	RS5505	2005	RS7176	2011
Q-08115C	2009	R497	2005	RD16A	564	RS1554	2002	RS5506	2005	RS7177	2011
Q-09115C	2009	R506	2004	RE2	2001	RS1555	2005	RS5507	2005	RS7201	2009
Q-10115C	2030	R515	2005	RE9	2038	RS2350	2005	RS5511	2004	RS7202	2011
Q-11115C	2019	R516	2005	RE12	2009	RS2351	2005	RS5530	2005	RS7210	2016
Q-12115C	2019	R530	2005	RE13	2009	RS2352	2005	RS5532	2005	RS7212	2015
Q-13115C	2009	R539	2005	RE21	2020	RS2353	2005	RS5533	2005	RS7215	2011
Q-14115C	2009	R558	2005	RE22	2043	RS2354	2005	RS5534	2005	RS7217	2011
Q-15115C	2009	R563	2005	RE33	2009	RS2355	2005	RS5535	2005	RS7218	2011
Q-16115C	2009	R564	2005	RE40	2020	RS2367	2005	RS5536	2005	RS7219	2011
Q-20115C	1144	R565	2005	RE41	2043	RS2373	2005	RS5542	2005	RS7220	2011
Q-21115C	1144	R579	2005	RE59	2012	RS2375	2005	RS5543	2005	RS7221	2011
Q-22115C	1102	R581	2003	RE60	2008	RS2677	2005	RS5544	2005	RS7223	2031
Q-23115C	1144	R592	2009	RE62	2022	RS2679	2002	RS5545	2005	RS7224	2031
Q-24115C	1144	R593	2005	RE66	2016	RS2680	2002	RS5563	2005	RS7225	2011
Q-25115C	1139	R608A	2005	RE67	2016	RS2683	2002	RS5564	2005	RS7226	2009
Q1	2004	R621-1	2019	RE77	2008	RS2684	2002	RS5566	2005	RS7227	2011
Q4	2004	R623-1	2019	RE78	2012	RS2685	2002	RS5566	2005	RS7228	2011
Q6	2005	R714	2004	RE2001	2016	RS2686	2002	RS5567	2005	RS7231	2011
Q7	2005	R715	2004	RE2002	2016	RS2687	2002	RS5568	2005	RS7232	2031
Q8	2005	R2003	2006	RE3001	2011	RS2688	2002	RS5602	2005	RS7233	2009
Q16	2005	R3508	2030	RE3002	2011	RS2689	2005	RS5603	2005	RS7234	2009
Q2001MS2	1000	R3515	2008	RE3842	2025	RS2694	2002	RS5605	2005	RS7235	2009
Q5053D	2014	R3608-1	2018	RE3843	2025	RS2695	2002	RS5607	2005	RS7236	2031
Q5053E	2014	R3608-2	2030	RE3844	2027	RS2696	2002	RS5608	2005	RS7237	2011
Q5053F	2014	R7028	1102	RE3845	2027	RS2697	2005	RS5610	2005	RS7238	2011
Q5053G	2014	R9600	2009	RE4001	2031	RS3211	2005	RS5612	2006	RS7241	2009
Q5078Z	2014	RA1	1144	RE4002	2031	RS3275	2005	RS5613	2006	RS7242	2009
Q5100A	2023	RA1Z	1144	RE4010	2031	RS3276	2005	RS5614	2006	RS7333	2031
Q5102P	2022	RCA-1000	2020	REJ70643	1139	RS3277	2002	RS5704	2005	RS7334	2031
Q5102Q	2022	RCA1B01	2041	REJ71253	1144	RS3279	2002	RS5704-2	2005	RS7511	2016
Q5102R	2022	RCA1C05	2020	RFJ70432	1139	RS3280	2005	RS5708	2005	RS7512	2011
Q5118CA	2023	RCA1C09	2020	RFJ70487	1139	RS3281	2004	RS5708-2	2005	RS7514	2018
Q5123E	2009	RCA1C10	2017	RFJ70703	1139	RS3282	2005	RS5709	2005	RS7515	2016
Q5123F	2009	RCA1C11	2040	RFJ70970	1139	RS3283	2005	RS5717	2005	RS7516	2009
Q5137BA	2012	RCA1C14	2020	RFJ70971	1139	RS3285	2005	RS5717-1	2005	RS7517	2016
Q40359	2025	RCA29	2017	RFJ70974	1139	RS3286	2005	RS5717-3	2005	RS7518	2009
Q51210	2014	RCA29A	2020	RFJ70976	1139	RS3288	2002	RS5717-6	2005	RS7519	2016
QA-8	2009	RCA29ASDH	2020	RFJ70977	1139	RS3289	2005	RS5720	2005	RS7520	2016
QA-9	2025	RCA29SDH	2017	RFJ71122	1139	RS3293	2005	RS5733	2005	RS7527	2009
QA-10	2018	RCA30	2025	RFJ71480	562	RS3299	2005	RS5734	2005	RS7555	2030
QA-11	2025	RCA30A	2043	RFJ72380	1139	RS3301	2005	RS5735	2005	RS7608	2016
QA-14	2008	RCA31	2017	RFJ72787	1139	RS3309	2002	RS5736	2005	RS7610	2016
QA-15	2009	RCA31A	2020	RIG0-1004	2005	RS3316	2005	RS5737	2005	RS7611	2016
QA-17	2025	RCA31ASDH	2020	RIG0-1005	2005	RS3322	2002	RS5740-1	2005	RS7612	2016
QA-18	2036	RCA31SDH	2017	RIG0-1006	2005	RS3323	2002	RS5742	2005	RS7613	2016
QA-20	2028	RCA32	2025	RIG1004	1139	RS3324	2002	RS5743	2005	RS7614	2016
QOV60529	2009	RCA32A	2043	RH-DX0008CEZZ	1139	RS3726	2005	RS5743-1	2005	RS7623	2009
QOV60530	2009	RCA41	2019	RH-DX0028AGZZ	1139	RS3857	2005	RS5743-2	2005	RS7624	2016
QP-13	2025	RCA41A	2020	RH-DX0033TAZZ	1144	RS3858-1	2006	RS5743-3	2005	RS7625	2016
QP-14	2019	RCA41ASDH	2020	RH-DX0039TAZZ	1139	RS3862	2003	RS5746	2005	RS7626	2016
QRF3	2036	RCA41DSH	2019	RH-DX0041CEZZ	1139	RS3863	2003	RS5747	2005	RS7627	2016
QS-0254	2009	RCA42	2027	RH-DX0042CEZZ	1139	RS3864	2003	RS5748	2005	RS7628	2016
QSE1001	2013	RCA42A	2043	RH-DX0043TAZZ	1139	RS3866	2005	RS5749	2005	RS7637	2016
QSE3001	2015	RCA101	2027	RH-DX0046CEZZ	1144	RS3967	2005	RS5752	2005	RS7638	2030
QSE5020	2011	RCA102	2043	RH-DX0048CEZZ	1144	RS3968	2003	RS5753	2005	RS7639	2009
R-25B492	2007	RCA103	2043	RH-DX0051CEZZ	1104	RS3880	2005	RS5753-2	2005	RS7678	2030
R-341	2005	RCA105	2043	RH-DX0054CEZZ	1144	RS3897	2005	RS5754	2005	RS7916	2036
R-424	2005	RCA201	2019	RH-DX0055TAZZ	1139	RS3898	2003	RS5755	2005	RS8406	2007
R-7026	1144	RCA202	2020	RH-DX0056CEZZ	1139	RS3900	2003	RS5756	2005	RS8407	2002
R-7027	1144	RCA203	2020	RH-DX0064CEZZ	1139	RS3902	2003	RS5761	2004	RS8424	2007
R-7029	1102	RCA205	2020	RH-DX0083CEZZ	1144	RS3903	2003	RS5765	2005	RS8441	2002
R-7051	1102	RCA370	2025	RH-EX0015CEZZ	564	RS3904	2005	RS5766	2005	RS8442	2009
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R-7096	1104	RCA520	2017	RS-101	2003	RS3906	2002	RS5768	2005	RS8444	2004
R-7103	563	RCA521	2017	RS-102	2005	RS3907	2003	RS5802	2003	RS8446	2005
R10DC	1139	RCA1000	2020	RS-103	2003	RS3911	2003	RS5818	2003	RS8503	2009
R16	2005	RCA2005	2020	RS-104	2001	RS3912	2003	RS5851	2009	RS9510	2031
R24-1001	2007	RCA2010	2020	RS-105	2006	RS3913	2005	RS5852	2005	RS9512	2031
R24-1002	2007	RCA2023-12	2020	RS-107	2009	RS3914	2004	RS5853	2009	RS57042	2005
R24-1003	2007	RCA3054	2020	RS-108	2016	RS3915	2004	RS5854	2005	RS57062	2005
R24-1004	2007	RCA3055	2020	RS-109	2011	RS3925	2005	RS5855	2006	RT-100	2012
R35	2001	RCA8203	2040	RS-110	2022	RS3929	2003	RS5856	2009	RT-101	2025
RS2	2003	RCA8203#</									

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DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-
RT-105	2013	RT5404	2030	RT8863	2014	S02	2003	S18200	2008	SC108B	2015
RT-108	2022	RT5435	2014	RT8883	2015	S03	2003	S20445	2014	SC108C	2015
RT-107	2013	RT5464	2009	RT8895	2021	S025	2005	S20446	2014	SC109	2015
RT-108	2013	RT5465	2009	RV-2289	1139	S031A	2013	S24612	2023	SC109A	2015
RT-109	2010	RT5466	2005	RV08	1139	S037	2031	S25805	2015	SC109B	2015
RT-110	2008	RT5467	2005	RV1226	1144	S085	2004	S32669	2011	SC147A	2013
RT-112	2013	RT5468	2004	RV1467	2011	S085A	2003	S33886	2021	SC147B	2013
RT-113	2031	RT5520	2003	RV1468	2011	S088	2005	S95101	2003	SC148	2015
RT-114	2008	RT5521	2004	RV1469	2011	S130-138	2011	S95102	2003	SC148A	2015
RT-118	2022	RT5522	2004	RV1470	2011	S130-251	2011	S95103	2003	SC148B	2015
RT-119	2001	RT5551	2009	RV1472	2025	S169N	2009	S95201	2004	SC148C	2015
RT-120	2022	RT5554	1144	RV1473	2011	S409F	2030	S95202	2016	SC149	2015
RT-121	2040	RT5637	2005	RV1474	2011	S1019	2011	S95203	2005	SC149B	2015
RT-126	2034	RT5738	1102	RV1475	2003	S1037	2011	S95204	2005	SC149C	2012
RT-131	2041	RT5900	2011	RV2068	2030	S1041	2015	S95214	2005	SC158	2034
RT-133	2020	RT5901	2011	RV2070	2014	S1044	2011	S99101	2003	SC158A	2034
RT-152	2020	RT5902	2011	RV2071	1144	S1058	2031	S99102	2003	SC158B	2034
RT-153	2043	RT5903	2011	RV2072	1139	S1059	2011	S99103	2003	SC158V1	2034
RT-154	2020	RT5904	2011	RV2213	562	S1060	2011	S99201	2005	SC159	2034
RT-155	2043	RT5905	2006	RV2248	2015	S1061	2009	S99203	2005	SC159A	2034
RT-159	2008	RT5906	2006	RV2249	2009	S1062	2011	S326690	2011	SC159B	2034
RT-1689	1102	RT5907	2009	RV2250	1139	S1065	2009	SA-2	1114	SC174	2012
RT-61014	2005	RT5908	1139	RV2351	2023	S1068	2009	SA2Z	1114	SC174A	2012
RT-61015	2005	RT5939	1102	RV2353	2023	S1068	2009	SA7	2001	SC174B	2012
RT-61016	2005	RT6157	2015	RV2354	2009	S1069	2016	SA29	2005	SC258	2034
RT102	2009	RT6158	2015	RVD1K110	1102	S1071	2020	SA33	2004	SC258A	2034
RT108	2011	RT6159	2015	RVD1N34A	1102	S1074(R)	2009	SA33BRN	2004	SC258B	2034
RT113	2011	RT6160	2015	RVD2-1K110	1102	S1078	2015	SA33RED	2004	SC258V1	2034
RT114	2009	RT6201	2011	RVD2DP22/1C	1152	S1079	2009	SA50	2023	SC259	2034
RT115	2023	RT6202	2011	RVD4B265J2	1139	S1080	2009	SA51	2023	SC259A	2034
RT126	2023	RT6203	2011	RVD8M54	1152	S1143	2016	SA52	2023	SC259B	2034
RT127	2006	RT6205	2005	RVD10D1	1139	S1153	2011	SA52A	2023	SC832	2009
RT476	2009	RT6322	1139	RVD10DC1	1139	S1221	2030	SA52B	2023	SC0321	2041
RT482	2012	RT6332	1139	RVD10DC1R	1139	S1227	2011	SA53	2023	SC0421	2043
RT483	2012	RT6800	2011	RVD12B-1	1152	S1286	2011	SA54	2023	SC0428	2043
RT484	2012	RT6800MHF25	2011	RVDD124B	1173	S1310	2021	SA55	2023	SC1229G	2009
RT697M	2009	RT6801	2015	RVDD5-410	1139	S1313	2015	SA56	2023	SC1294H	2021
RT699M	2008	RT6802	2015	RVDKB265J2	1144	S1316	2011	SA70	2023	SC4044	2016
RT929H	2016	RT6728	1102	RVDMM206	561	S1317	2011	SA128-1	2007	SC4116	1139
RT930H	2016	RT6732	2009	RVDMM209	562	S1318	2011	SA197	2007	SC4131	2018
RT1108	1102	RT6733	2009	RVDSD5R6EB	561	S1331	2009	SA197-1	2007	SC4131-1	2030
RT1595	1139	RT6734	2005	RVDSD11AN	562	S1361	2013	SA197-2	2007	SC4244	2030
RT1689	1144	RT6735	2005	RVDSD-1	1139	S1362	2015	SA197-3	2007	SC5175G	010
RT2230	2005	RT6736	2004	RVDSD-1U	1139	S1363	2013	SA204	2007	SCC321	2041
RT2309	2014	RT6787	2014	RVDSD-1Y	1139	S1364	2013	SA205BLU	2003	SCC421	2043
RT2329	2004	RT6791	1139	RVDSDR3AM2N	1139	S1367	2021	SA205BRN	2007	SD-1AHF	1139
RT2330	2005	RT6821	2030	RVDVD1210L	1144	S1368	2009	SA205GRN	2003	SD-1B	1139
RT2331	2004	RT6821MHF25	2009	RVDVD1210M	1144	S1369	2009	SA205ORN	2005	SD-1UF	1139
RT2334	1102	RT6888	2005	RVDVD1211L	1144	S1428	1144	SA205RED	2005	SD-1X	1104
RT2451	1102	RT6889	2015	RVDVD1212L	1139	S1475	2009	SA205VIO	2003	SD-2	1139
RT2914	2030	RT6890	2005	RVDVD1213	1139	S1476	2009	SA205WHT	2005	SD-5	1144
RT2915	2011	RT6891	2015	RVS2SC645	2015	S1477	2021	SA205YEL	2007	SD-27	562
RT3063	2030	RT7320	2011	RVTCS1381	2009	S1559	2009	SA240	2007	SD-43	1144
RT3064	2030	RT7321	2011	RVTCS1382	2023	S1568	2009	SA310	2022	SD-46	1102
RT3065	2021	RT7322	2009	RVTCS1383	2009	S1570	2009	SA311	2022	SD-46-2	1102
RT3069	2011	RT7323	2011	RVTCS1384	2011	S1629	2009	SA312	2022	SD-110	1144
RT3070	2011	RT7324	2011	RVTCS1473	2014	S1642	2009	SA313	2022	SD1CUF	1139
RT3071	2021	RT7325	2009	RVTMK10-2	2028	S1674	2011	SA314	2022	SD1Z	1139
RT3095	2011	RT7326	2009	RVTMK10-E	2028	S1682	2011	SA315	2022	SD12	1144
RT3096	2002	RT7327	2009	RVTSS22410	2009	S1801-02	1139	SA316	2022	SD13	1139
RT3097	2007	RT7330	1102	RVTSS22411	2023	S1835	2013	SA318-2	2004	SD18	1139
RT3098	2007	RT7400	2001	S-1.5	1114	S1874	2030	SA318-3	2005	SD45	1139
RT3225	2011	RT7401	2007	S-1.5-0	1139	S1891A	2009	SA410	2022	SD46	1102
RT3226	2011	RT7538	1136	S-05	1139	S1891B	2009	SA411	2022	SD46(4)	1136
RT3227	2011	RT7557	2030	S-05-01	1139	S1897	2011	SA412	2022	SD53	563
RT3228	2009	RT7558	2006	S-05-005	1139	S1907	2041	SA413	2022	SD82A	1101
RT3230	2005	RT7559	2014	S-15	1139	S1978	2014	SA414	2022	SD040	1139
RT3232	2011	RT7634	1139	S-15H	1104	S2020	2011	SA415	2022	SD141	2019
RT3233	1102	RT7636	1102	S-34	1139	S2038	2015	SA416	2022	SD470	1139
RT3466	2003	RT7703	2015	S-85	2018	S2041	2025	SA495	2023	SD630	1144
RT3467	2004	RT7704	2014	S-86	2018	S2042	2019	SA495A	2023	SD632	562
RT3468	2003	RT7845	2031	S-1019	2015	S2043	2009	SA496	2023	SD1013	2020
RT3564	2005	RT7846	2005	S-1276	2011	S2044	2009	SA496A	2023	SD1133	2017
RT3566	2005	RT7849	1139	S-1296	2011	S2045	2009	SA496B	2023	SD1134	2017
RT3568	2005	RT7850	1139	S-1313	2011	S2085	1102	SA537	2022	SD1135	2017
RT3858	1139	RT7943	2009	S-1316	2015	S2104	2030	SA538	2021	SD1136	2017
RT4525	2005	RT7945	2030	S-1318	2011	S2172	2009	SA539	2022	SDD420	2009
RT4624	2005	RT7946	1144	S-1682	2011	S2224	2011	SA540	2021	SDD421	2009
RT4625	2006	RT8047	2009	S-2172	2015	S2225	2009	SA565	2004	SDD621	2009
RT4760	2015	RT8193	2011	S-2617	2011	S2617	2011	SA646	2004	SDD1220	2009
RT4761	2009	RT8195	2009	S-20448	2014	S3004-1716	1144	SA681	2004	SDD3000	2021
RT4762	2006	RT8197	2009	S-88578	1101	S3004-1718	562	SA0419	2043	SDH-2	1102
RT4880	1102	RT8198	2009	S-95218	2005	S3016R	1139	SA6207	2008	SDI345	2017
RT5061	2015	RT8199	1104	S-99218	2005	S3639	2021	SA6207A	2008	SDI445	2025
RT5063	2005	RT8201	2009	S1-1	1139	S3640	2021	SAB1044	2011	SDJ345	2020
RT5151	2012	RT8231	1139	S1.5	1139	S3655	2023	SAB3469	2011	SDJ445	2025
RT5152	2012	RT8330	2011	S1.5-01	1139	S3771	2042	SB-2C	1114	SDK345	2020
RT5200	2011	RT8331	2028	S1B-0306	1114	S4000	2017	SB-2T	1139	SDK445	2025
RT5201	2011	RT8332	2009	S1B01-01	1139	S4001	2017	SB-3F01	1139	SDL345	2020
RT5202	2009	RT8333	2011	S1B01-02	1139	S4002	2017	SB1-01-04	1139	SDL445	2043
RT5203	2012	RT8335	2019	S1B02-CR	1139	S5021	2011	SB2CH	1114	SDM345	2020
RT5204	2011	RT8337	2009	S1B0201B	1152	S5327E	2015	SB55	2005	SDM445	2025
RT5205	2011	RT8339	562	S1B0201CR	1139	S5328E	2015	SB100	2003	SDN345	2020
RT5206	2009	RT8340	1139	S1D28	1114	S5670E	2011	SB168	2005	SDN445	2043
RT5207	2009	RT8527	2015	S1D50B851-A	1144	S6000	2020	SB169	2005	SDT7A01	2020
RT5208	2014	RT8665	1114	S1D51C052-19	1139	S6001	2020	SB200	2003	SDT7A02	2020
RT5212	1102	RT8666	2014	S1D153	2018	S6002	2020	SB0319	2020	SDT7B01	2020
RT5213	1102	RT8667	2028	S1R12B	563	S9631	2009	SB0419	2043	SDT7B05	2020
RT5214	1102	RT8668	2015	S1RB	1152	S10153	2018	SB5122	2005	SDT1611	2041
RT5216	1104	RT8669	2015	S1SM-150-01	1139	S15649	2031	SC1	1139	SDT1612	2041
RT5217	1104	RT8671	1102	S2N1486	2020	S15650	2031	SC12	2005	SDT1621	2041
RT5379	1102	RT8839	1104	S2N2034A	2020	S15657	2016	SC86	2005	SDT1622	2041
RT5401	2030	RT8840	1139	S5S	1139	S15658	2016	SC91	562	SDT1631	2041
RT5402	2030	RT8841	1139	S5SR	1139	S15659					

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DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-
SDT1842	2020	SE3646	2016	SFT223	2005	SJ819	2017	SK3003	2004	SN-1	1139
SDT1851	2020	SE4001	2016	SFT226	2004	SJ1152	2025	SK3004	2005	SN60	2009
SDT1852	2020	SE4002	2016	SFT227	2003	SJ1171	2025	SK3005	2005	SN80	2009
SDT1861	2020	SE4010	2009	SFT228	2003	SJ1284	2025	SK3006	2003	SN7400	1801
SDT1862	2020	SE4020	2009	SFT229	2003	SJ2000	2041	SK3007	2003	SN7402	1811
SDT3552	2040	SE4022	2016	SFT237	2005	SJ2001	2043	SK3008	2005	SN7404N	1802
SDT3575	2040	SE4172	2013	SFT238	2006	SJ2031	2025	SK3009	2006	SN7474	1808
SDT3601	2040	SE5001	2016	SFT239	2006	SJ2032	2018	SK3010	2001	SN7476B	1813
SDT3602	2043	SE5002	2016	SFT240	2006	SJ2095	2019	SK3011	2001	SN7490N	1808
SDT3620	2043	SE5003	2016	SFT241	2004	SJ3408	2017	SK3012	2006	SO-632	562
SDT3703	2040	SE5006	2016	SFT243	2005	SJE42	2019	SK3013	2006	SO501	1139
SDT3712	2040	SE5010	2038	SFT250	2006	SJE100	2018	SK3013TWO	2006	SP26	2006
SDT3715	2040	SE5015	2015	SFT251	2004	SJE106	2018	SK3014	2006	SP39	2006
SDT3716	2040	SE5020	2015	SFT252	2004	SJE108	2026	SK3015	2006	SP47	2006
SDT3720	2040	SE5021	2015	SFT253	2005	SJE111	2026	SK3015TWO	2006	SP62	2006
SDT3721	2040	SE5022	2015	SFT259	2001	SJE112	2026	SK3018	2015	SP70	2021
SDT3725	2040	SE5023	2015	SFT260	2002	SJE113	2018	SK3019	2011	SP90	2023
SDT3726	2040	SE5024	2015	SFT261	2001	SJE114	2026	SK3020	2009	SP230	2006
SDT3729	2040	SE5025	2016	SFT264	2006	SJE133	2018	SK3024	2009	SP404	2004
SDT3733	2040	SE5029	2038	SFT265	2006	SJE202	2026	SK3025	2021	SP404T	2006
SDT3752	2040	SE5030	2011	SFT266	2006	SJE203	2018	SK3026	2020	SP441	2006
SDT3756	2040	SE5030A	2013	SFT267	2006	SJE210	2026	SK3028	2020	SP441D	2006
SDT3757	2040	SE5030B	2016	SFT268	2006	SJE211	2018	SK3034	2006	SP441G	2006
SDT3761	2040	SE5031	2038	SFT288	2003	SJE220	2017	SK3038	2016	SP441S	2006
SDT3762	2040	SE5032	2038	SFT289	2001	SJE221	2026	SK3039	2011	SP485	2006
SDT3766	2027	SE5036	2015	SFT306	2004	SJE222	2018	SK3041	2019	SP485B	2004
SDT3775	2040	SE5040	2016	SFT307	2004	SJE227	2026	SK3046	2009	SP485BLK	2006
SDT3778	2040	SE5050	2015	SFT308	2003	SJE228	2018	SK3048	2018	SP485BLU	2006
SDT3803	2043	SE5051	2015	SFT315	2003	SJE229	2018	SK3049	2018	SP485BRN	2006
SDT3805	2040	SE5052	2015	SFT316	2003	SJE231	2025	SK3052	2006	SP485W	2004
SDT3807	2040	SE5055	2015	SFT317	2003	SJE237	2018	SK3054	2020	SP485WHT	2006
SDT3825	2040	SE5056	2016	SFT318	2005	SJE241	2026	SK3080	TWO2006	SP486	2006
SDT3827	2027	SE6001	2009	SFT319	2003	SJE242	2018	SK3082	2006	SP486W	2004
SDT3850	2025	SE6002	2030	SFT320	2003	SJE243	2026	SK3084	2040	SP486WHT	2006
SDT3852	2025	SE6010	2009	SFT321	2004	SJE244	2018	SK3085	2040	SP634	2006
SDT3875	2027	SE6022	2014	SFT322	2005	SJE245	2026	SK3112	2028	SP649-1	2006
SDT3877	2027	SE7001	2012	SFT323	2004	SJE246	2018	SK3114	2032	SP744	2006
SDT3901	2043	SE7002	2008	SFT325	2005	SJE247	2025	SK3117	2015	SP777	2006
SDT3902	2043	SE7010	2008	SFT337	2004	SJE248	2018	SK3118	2023	SP819R	2006
SDT3920	2043	SE7015	2008	SFT351	2004	SJE253	2018	SK3122	2009	SP834	2006
SDT4301	2017	SE7016	2008	SFT352	2004	SJE254	2017	SK3124	2016	SP875	2006
SDT4302	2020	SE7017	2008	SFT353	2005	SJE255	2017	SK3181	2040	SP880	2006
SDT4304	2017	SE7055	2008	SFT354	2003	SJE256	2025	SK3183	2040	SP880-1	2006
SDT4305	2020	SE7056	2008	SFT357	2003	SJE257	2026	SK3190	2020	SP880-3	2006
SDT4307	2017	SE8001	2030	SFT357P	2003	SJE261	2018	SK3191	2043	SP891	2006
SDT4308	2020	SE8002	2008	SFT358	2003	SJE262	2018	SK3510	2041	SP891B	2004
SDT4310	2017	SE8010	2008	SFT377	2001	SJE265	2026	SK3530	2020	SP891BLU	2004
SDT4311	2020	SE8040	2009	SFT528	2004	SJE267	2026	SK3534	2020	SP891G	2006
SDT5101	2020	SE8041	2030	SFT713	2009	SJE271	2018	SK7181	2015	SP891GRN	2006
SDT5102	2020	SE8042	2030	SFT714	2009	SJE272	2018	SKA-4075	2011	SP891R	2006
SDT5103	2020	SE8540	2023	SG-105	1139	SJE273	2026	SKA1117	2009	SP891W	2006
SDT5111	2043	SELEN-701	1139	SG005	1139	SJE274	2018	SKA4074	2011	SP891WHT	2006
SDT5112	2043	SF115	2016	SH-1	1139	SJE275	2026	SKA9013	2011	SP1013B	2006
SDT5113	2043	SF115A	2016	SH-1S	1139	SJE276	2026	SL-030	1139	SP1108	2006
SDT7711	2020	SF115B	2016	SH1S	1139	SJE277	2026	SL-030T	1139	SP1118	2006
SDT7712	2020	SF115C	2016	SH1064	2009	SJE278	2018	SL103	1144	SP1271	2006
SDT7741	2020	SF115D	2016	SHA7520	2025	SJE279	2026	SL301A	2038	SP1323	2006
SDT7742	2020	SF115E	2016	SHA7521	2043	SJE280	2018	SL301AE	2038	SP1378	2006
SDT8153	2020	SF167	2016	SHA7522	2025	SJE283	2025	SL301B	2038	SP1403	2006
SDT8155	2020	SF173	2038	SHA7523	2025	SJE284	2017	SL301BE	2038	SP1481	2004
SDT8158	2020	SF194	2015	SHA7524	2043	SJE288	2025	SL301C	2012	SP1481-1	2006
SDT8159	2019	SF194B	2015	SHA7526	2025	SJE289	2017	SL301CE	2012	SP1481-2	2006
SDT9201	2041	SF195	2015	SHA7527	2025	SJE305	2018	SL301E	2038	SP1481-3	2004
SDT9205	2041	SF195C	2015	SHA7528	2043	SJE320	2017	SL301EE	2038	SP1481-4	2006
SDT9206	2041	SF195D	2015	SHA7530	2023	SJE340	2018	SL303AE	2038	SP1481-5	2006
SDT9210	2041	SF196	2016	SHA7531	2043	SJE401	2017	SL303AT	2038	SP1482-2	2006
SDT9301	2019	SF197	2038	SHA7532	2023	SJE402	2017	SL303BE	2038	SP1482-3	2004
SDT9302	2020	SF294	2015	SHA7533	2023	SJE403	2025	SL303BT	2038	SP1482-4	2006
SDT9304	2019	SF294B	2015	SHA7534	2043	SJE404	2017	SL354BE	2038	SP1482-5	2006
SDT9305	2020	SF295	2015	SHA7536	2023	SJE405	2017	SL354BF	2038	SP1482-6	2006
SDT9307	2019	SF295C	2015	SHA7537	2023	SJE407	2019	SL918	2038	SP1482-7	2006
SDT9308	2020	SF295D	2015	SHA7538	2043	SJE408	2026	SL0305,T	1139	SP1483-1	2004
SDT9801	2020	SF310	2038	SHA7597	2040	SJE409	2018	SL3693	2038	SP1483-2	2006
SDT9802	2020	SF314	2038	SHA7598	2040	SJE583	2019	SL8020	1738	SP1483-3	2006
SDT9803	2020	SF334	2016	SHA7599	2040	SJE584	2026	SM-1K	1139	SP1556	2006
SDT9901	2020	SF334B	2016	SI-RECT-73	1139	SJE669	2019	SM-150-02	1144	SP1556-1	2006
SDT9902	2020	SF335	2016	SI-RECT-2	1139	SJE721	2018	SM-716	2009	SP1556-2	2006
SDT9903	2020	SF335C	2016	SI-RECT-33	1139	SJE723	2025	SM-7991	2014	SP1556-3	2009
SE-5	1139	SF335D	2016	SI-RECT-35	1144	SJE724	2017	SM150	1139	SP1556-4	2006
SE-05	1139	SF1713	2009	SI-RECT-37	1139	SJE736	2026	SM150-01	1139	SP1556-5	2006
SE-4001	2011	SF1714	2009	SI-RECT-39	1139	SJE737	2018	SM150-11	1139	SP1595BLK	2004
SE-5001	2011	SF1726	2009	SI-RECT-59	1139	SJE743	2017	SM576-1	2009	SP1595BLU	2006
SE-5006	2011	SF1730	2009	SI-RECT-69	1139	SJE768	2025	SM576-2	2009	SP1595GRN	2006
SE5-0819	2004	SF.T184	2001	SI-RECT-75	1139	SJE769	2018	SM843	2004	SP1595RED	2004
SE500G	2011	SF.T237	2007	SI-RECT-110/SB-3F	1139	SJE781	2017	SM0843	2004	SP1596BLK	2004
SE1001	2009	SF.T288	2007	SI-RECT-112/SB-3	1139	SJE783	2017	SM1507	2022	SP1596BLU	2006
SE1001-1	2009	SFE145	2035	SI-RECT-136	1114	SJE784	2017	SM1600	2005	SP1596GRN	2006
SE1001-2	2009	SFOR2B41	1059	SI-RECT-152	1144	SJE785	2013	SM2492	2003	SP1596RED	2004
SE1002	2009	SFT124	2004	SI-RECT-174	1139	SJE797	2026	SM2700	2009	SP1600	2006
SE1002-1	2013	SFT125	2005	SI-RECT-178	1139	SJE799	2026	SM2701	2009	SP1603-1	2004
SE1002-2	2013	SFT125P	2005	SI-RECT-204	1114	SJE1518	2026	SM3014	2003	SP1603-2	2006
SE1010	2011	SFT143	2004	SI-RECT-222	1139	SJE1519	2018	SM3104	2009	SP1603-3	2006
SE1012	2030	SFT144	2005	SI-RECT-226	1139	SJE1520	2018	SM3505	2009	SP1618	2006
SE1019	2011	SFT162	2003	SI-RECT-228	563	SJE5018	2019	SM3986	2009	SP1651	2006
SE1044	1101	SFT163	2003	SI-RECT-230	563	SJE5019	2019	SM3987	2021	SP1657	2004
SE1419	2011	SFT171	2003	SI-RECT102	1139	SJE5402	2019	SM4547	2023	SP1742	2006
SE1620	2014	SFT172	2003	SIB-01-022	1139	SK-3041	2018	SM4719	2023	SP1775	2006
SE2001	2016	SFT173	2003	SIB01	1139	SK-3960	2009	SM5379	2009	SP1801	2006
SE2002	2016	SFT174	2003	SIB01-02	1139	SK1K-2	1139	SM5380	2010	SP1844	2006
SE3001	2011	SFT184	2002	SIB01-04	1139	SK7	2001	SM5564	2009	SP1927	2006
SE3002	2011	SFT212	2006	SIB01-06	1139	SK1320	2011	SM5643	2016	SP1938	2006
SE3003	2011	SFT213	2006	SIB508794-1	1152	SK1856	2021	SM6762	2009	SP1950	2006
SE3005	2011	SFT214	2006								

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SP2155	2006	SPS3948	2009	SPS4365	2021	SS4042	2011	STC1336	2017	SX3709	2013
SP2234	2006	SPS3951	2013	SPS4367	2013	SSA43	2022	STC1500	2020	SX3711	2008
SP2247	2006	SPS3952	2009	SPS4368	2009	SSA43A	2022	STC1550	2019	SX3825	2009
SP2341	2006	SPS3957C	2009	SPS4423	2011	SSA46	2022	STC1551	2020	SX3826	2011
SP2358	2006	SPS3967	2013	SPS4446	2009	SSA48	2022	STC1553	2019	SYL105	2004
SP2361	2006	SPS3968	2009	SPS4450	2013	SSP2848	2008	STC1554	2020	SYL106	2004
SP2361BLU	2006	SPS3971	2009	SPS4451	2009	SSP2849	2008	STC1800	2017	SYL107	2005
SP2361BRN	2006	SPS3972	2009	SPS4452	2021	SSP2850	2008	STC1850	2020	SYL108	2005
SP2361GRN	2006	SPS3973	2009	SPS4453	2013	SSP2851	2008	STC1860	2020	SYL109	2006
SP2361ORN	2004	SPS3987	2034	SPS4455	2009	SSP2852	2008	STC1882	2020	SYL152	2016
SP2361RED	2006	SPS3988	2034	SPS4456	2013	ST01	2009	STC4242	2042	SYL160	2004
SP2361YEL	2004	SPS3990	2034	SPS4457	2009	ST02	2009	STC4401	2020	SYL792	2007
SP2395	2006	SPS3999	2013	SPS4458	2021	ST03	2009	STC5109/I	2027	SYL1326	2001
SP2431	2006	SPS4002	2011	SPS4459	2013	ST04	2009	STC5110/I	2043	SYL1327	2002
SP2493	2006	SPS4003	2011	SPS4460	2034	ST05	2009	STC5112/I	2027	SYL1380	2001
SP2541	2006	SPS4004	2009	SPS4472	2013	ST28A	2004	STC5113/I	2043	SYL1408	2001
SP2551	2006	SPS4005	2009	SPS4473	2034	ST28B	2004	STC5202	2025	SYL1454	2002
SP8660	2019	SPS4006	2009	SPS4476	2013	ST28C	2004	STC5203	2043	SYL1468	2001
SP8918	2017	SPS4007	2034	SPS4480	2034	ST37C	2004	STC5205	2025	SYL1583	2005
SP8919	2025	SPS4008	2009	SPS4610	2009	ST37D	2004	STC5206	2043	SYL1591	2001
SPC40	2009	SPS4009	2013	SPS4813	2034	ST37E	2004	STC5519/I	2027	SYL1608	2004
SPC42	2009	SPS4013	2021	SPS4814	2013	ST50	2009	STC5520/I	2043	SYL1617	2002
SPC50	2009	SPS4014	2034	SPS4815	2032	ST51	2009	STC5522/I	2027	SYL1655	2003
SPC51	2009	SPS4016	2009	SPS4920	2013	ST53	2009	STC5523/I	2043	SYL1685	2005
SPC52	2009	SPS4017	2013	SPS5006	2013	ST54	2009	STC5610	2043	SYL1688	2005
SPC151-04	2041	SPS4018	2034	SPS5006-1	2013	ST55	2009	STC5611	2025	SYL1690	2005
SPC151-06	2041	SPS4019	2034	SPS5006-2	2013	ST56	2009	STC5612	2025	SYL1697	2004
SPC152-04	2041	SPS4020	2009	SPS5007	2023	ST57	2009	STC5802	2025	SYL1717	2005
SPC152-06	2041	SPS4025	2021	SPS5007-1	2023	ST58	2009	STC5803	2043	SYL1750	2001
SPF024	2028	SPS4026	2034	SPS5007-2	2023	ST59	2009	STC5805	2025	SYL2189	2003
SPF2015	2037	SPS4027	2034	SPS5008	2034	ST60	2015	STC5806	2043	SYL2248	2005
SPS-856	2011	SPS4028	2021	SPS5450	2008	ST61	2015	STC7114	2020	SYL2249	2005
SPS-860	2011	SPS4029	2009	SPS5451	2023	ST62	2015	STC7518	2020	SYL2250	2005
SPS-952	2023	SPS4030	2015	SPS5809	2009	ST63	2009	STE400	2016	SYL2300	2005
SPS-1351	2011	SPS4031	2021	SPS6109	2021	ST64	2009	STE401	2016	SYL3613	2003
SPS-1352	2015	SPS4032	2011	SPS6111	2013	ST70	2015	STI-10	2008	SYL4131	2011
SPS-1353	2015	SPS4034	2009	SPS6112	2013	ST71	2015	STI-20	2008	SYL4280	2018
SPS-1473	2011	SPS4039	2009	SPS6113	2011	ST72	2015	STI-30	2008	SYL4315	2002
SPS-1475(YT)	2009	SPS4040	2009	SPS7652	2009	ST80	2015	STI10	2008	SYL4399	2002
SPS-1539(WT)	2023	SPS4041	2013	SPT3713	2041	ST82	2015	STI20	2008	SZ-8	562
SPS4	2009	SPS4042	2011	SO7	2001	ST108	2008	STI30	2008	SZ-200-9V	562
SPS12	2023	SPS4043	2015	SR-05K-2	1139	ST107	2008	STT8001	2039	T-3321	2007
SPS20	2013	SPS4044	2013	SR-18	1139	ST108	2008	STT8004	2039	T-3323	2007
SPS22	2022	SPS4045	2013	SR1DM-4	1139	ST109	2008	STT8007	2039	T-131	2004
SPS38	2013	SPS4049	2009	SR1EM-2	1139	ST110	2008	STT8010	2039	T-163	2003
SPS40	2011	SPS4050	2015	SR1EM-4	1139	ST111	2008	STX0011	2025	T-203	2009
SPS41	2009	SPS4051	2015	SR1FM-1	1139	ST112	2008	STX0013	2018	T-246	2021
SPS42	2023	SPS4052	2009	SR1FM-4	1139	ST122	2005	STX0020	2026	T-251	2034
SPS43-1	2009	SPS4053	2009	SR1FM-8	1139	ST123	2005	STX0028	2008	T-255	2016
SPS47	2034	SPS4054	2021	SR1HM-2	1139	ST150	2009	STX0029	2025	T-278	2003
SPS91	2006	SPS4055	2011	SR1HM-4	1139	ST151	2009	STX0030	2025	T-279	2003
SPS220	2011	SPS4056	2034	SR1K	1139	ST152	2009	STX0033	2003	T-291	2011
SPS401K	2034	SPS4059	2013	SR1K-1	1139	ST153	2009	STX0034	2003	T-339	2009
SPS428	2011	SPS4060	2009	SR1K-2	1139	ST154	2009	STX0036	2003	T-340	2023
SPS514	2034	SPS4061	2011	SR1K-8	1139	ST155	2009	STX0085	2005	T-342	2009
SPS817	2009	SPS4062	2009	SR1K-Z	1139	ST156	2009	STX0087	2005	T-344	2019
SPS817N	2009	SPS4063	2013	SR3AM-2	1142	ST157	2009	STX0089	2003	T-348	2005
SPS868	2013	SPS4064	2023	SR3AM-8	1104	ST160	2009	STX0090	2005	T-396	2026
SPS0121	2025	SPS4066	2009	SR3BM-6	1139	ST161	2009	STX0096	2005	T-399	2016
SPS0122	2018	SPS4067	2009	SR16	1104	ST162	2009	STX0099	2003	T-423	2026
SPS1097	2023	SPS4068	2011	SR17	1104	ST163	2009	STX0104	2003	T-E1011	1139
SPS1352	2011	SPS4069	2013	SR23	1139	ST301	2005	STX0105	2005	T-E1031	1102
SPS1353	2011	SPS4072	2034	SR27	1139	ST302	2005	STX0110	2005	T-E1089	1139
SPS1523	2021	SPS4073	2021	SR75844	2013	ST303	2005	STX0114	2007	T-E1097	1139
SPS2110	2011	SPS4074	2011	SRL1014	2008	ST304	2005	STX0121	2005	T-E1106	563
SPS2111	2011	SPS4075	2013	SRL2014	2008	ST332	2005	STX0123	2003	T-E1133	1139
SPS2224	2015	SPS4076	2034	SRL2254S	2008	ST370	2004	STX0224	2005	T-E1138	1144
SPS2225	2009	SPS4077	2011	SRL2504	2008	ST382	2005	STX0260	2007	T-E1140	563
SPS2226	2023	SPS4078	2023	SRL2504S	2008	ST440	2020	STX0263	2007	T-E1144	1104
SPS2265	2011	SPS4079	2009	SRL2754S	2008	ST501	2009	STX0264	2007	T-E1153	1139
SPS2265-1	2015	SPS4080	2011	SRL3014	2008	ST502	2009	STX0265	2003	T-E1157	1104
SPS2265-2	2011	SPS4081	2013	SRL3014S	2008	ST503	2009	STX0268	2003	T-E1171	1139
SPS2266	2011	SPS4082	2034	SRM1004	2008	ST504	2009	STX0269	2003	T-E1176	1104
SPS2269	2023	SPS4083	2013	SRM2014	2008	ST1242	2021	STXX0026	2011	T-E1177	1138
SPS2270	2030	SPS4084	2013	SRM2254S	2008	ST1243	2021	SV442	2029	T-H2SC313	2015
SPS2271	2009	SPS4085	2009	SRM2504	2008	ST1244	2021	SV-01B	1139	T-Q5020	2007
SPS2272	2023	SPS4086	2023	SRM2504S	2008	ST1290	2021	SV-02	1104	T-Q5031	2001
SPS2274	2023	SPS4087	2023	SRM2754S	2008	ST1506	2009	SV-04	1139	T-Q5032	2001
SPS2320	2006	SPS4088	2008	SRM3014	2008	ST1807	2009	SV-31	1102	T-Q5039	2001
SPS3003	2011	SPS4089	2009	SRM3014S	2008	ST4150	2012	SV01A	1139	T-Q5049	2011
SPS3015	2009	SPS4090	2021	SRS1004	2008	ST4201	2012	SV02A	1139	T-Q5053	2014
SPS3370	2011	SPS4091	2009	SRS2004	2008	ST4202	2012	SV30	1102	T-Q5053C	2009
SPS3724	2021	SPS4092	2026	SRS2504	2008	ST4203	2012	SV31	2005	T-Q5055	2015
SPS3735	2011	SPS4095	2013	SRS3014	2008	ST4204	2012	SVD0A70	1102	T-Q5063	2030
SPS3786	2021	SPS4145	2011	SS29A4	2024	ST5641	2031	SVD0A79	1102	T-Q5071	2011
SPS3787	2009	SPS4167	2011	SS29A5	2024	ST6110	2023	SVD0A90	1102	T-Q5073	2009
SPS3900	2009	SPS4168	2011	SS0001	2005	ST7100	2009	SVD1S1717	562	T-Q5077	2023
SPS3907	2013	SPS4169	2011	SS0002	2005	ST8014	2021	SVD02Z9.5A	562	T-Q5079	2011
SPS3908	2013	SPS4199	2009	SS0003	2005	ST8033	2021	SVD10D-1	1139	T-Q5082	2008
SPS3909	2011	SPS4300	2030	SS0004	2005	ST8034	2021	SVD12B2B1P-M	1152	T-Q5087	2023
SPS3912	2009	SPS4301	2021	SS0005	2003	ST8035	2023	SVD20A70	1102	T-Q5093	2014
SPS3914	2009	SPS4302	2023	SS1606	2021	ST8036	2023	SVD20A79	1102	T-Q5098	2030
SPS3915	2009	SPS4303	2009	SS1906	2021	ST8065	2021	SVDMA26	1104	T-Q5105	2041
SPS3923	2013	SPS4309	2016	SS2308	2009	ST8500	2021	SVDMA26-1	1102	T-Q5106	2015
SPS3924	2034	SPS4310	2021	SS2503	2022	ST8509	2021	SVD51RB10	1152	T-Q5153	2015
SPS3925	2013	SPS4311	2009	SS2504	2009	ST61000	2022	SVD5C20	1102	T1-1A6	2009
SPS3926	2009	SPS4312	2021	SS3519	2009	ST72018	2040	SVDVD1121	1144	T1B	1738
SPS3927	2034	SPS4313	2013	SS3526	2009	STB01-02	1144	SVDVD1223	1139	T1P31	2019
SPS3929	2011	SPS4314	2034	SS3534-4	2035	STC1024	2020	SW-1-01	1139	T1P31A	2018
SPS3930	2013	SPS4345	2013	SS3586	2028	STC1080	2019	SW-05-005	1139	T1S-18	2011
SPS3931	2021	SPS4354	2021	SS3588	2009	STC1081	2				

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DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-
T01-101	2013	T1011	2005	T2159	2004	TA1861	2003	TE3904	2016	TI-890	2022
T01-104	2016	T1012	2005	T2172	2004	TA1881	2006	TE3905	2034	TI-891	2022
T01-105	2031	T1013	2005	T2173	2004	TA1890	2006	TE3906	2016	TI24A	2009
T23	2004	T1023	2005	T2322	2005	TA1891	2006	TE4123	2016	TI25A	2009
T39	2004	T1028	2005	T2323	2005	TA2322	2003	TE4124	2016	TI25B	2015
T45	2005	T1033	2005	T2324	2005	TA2401	2011	TE4125	2034	TI54A	2009
T46	2004	T1034	2005	T2364	2004	TA2503	2015	TE4126	2034	TI54D	2013
T47	2004	T1038	2005	T2379	2003	TA2911	2019	TE4256	2013	TI54E	2009
T48	2004	T1040	2006	T2384	2003	TA7311	2020	TE4424	2010	TI363	2003
T50	2009	T1041	2006	T2439	2004	TA7312	2020	TE4425	2012	TI364	2003
T51	2021	T1042	2005	T2440	2004	TA7313	2020	TE4951	2009	TI365	2003
T52	2023	T1043	2005	T2441	2004	TA7314	2020	TE4952	2009	TI366	2006
T55	2009	T1046	2005	T2634	2011	TA7315	2020	TE4953	2009	TI366A	2006
T56	2011	T1047	2005	T2788	2003	TA7316	2020	TE4954	2009	TI367	2006
T57	2024	T1166	2005	T2878	2004	TA7318	2020	TE5086	2022	TI367A	2006
T61	2005	T1167	2006	T2896	2003	TA7520	2025	TE5087	2022	TI368	2006
T72	2005	T1168	2006	T2945	2003	TC3200	2016	TE5088	2013	TI368A	2006
T74	2005	T1202	2004	T2946	2003	TC3123036722	2009	TE5089	2013	TI369	2006
T78	2004	T1208	2028	T3005	2004	TC3123036900	2031	TE5249	2012	TI369A	2006
T82	2005	T1224	2012	T3539	2011	TC3123037111	2009	TE5309	2012	TI370	2006
T83	2004	T1225	2003	T3565	2009	TC3123037222	2031	TE5310	2012	TI370A	2006
T84	2004	T1232	2005	T3568(RCA)	2011	TC3123037412	2031	TE5311	2012	TI387	2003
T87	2004	T1233	2005	T3601(RCA)	2011	TC3123041557	2005	TE5365	2023	TI388	2003
T95	2004	T1250	2003	T8028	2004	TC988	2022	TE5386	2023	TI389	2003
T99	2004	T1275	2022	T8029	2004	TCO.09M22/1	1152	TE5387	2023	TI390	2003
T100	2004	T1276	2021	T8030	2004	TCS100	2008	TE5388	2009	TI391	2003
T101	2004	T1298	2005	T8031	2004	TC5102	2008	TE5389	2009	TI395	2003
T102A	2004	T1299	2005	T8032	2004	TD-15-BL	1144	TE5370	2009	TI397	2003
T108	2004	T1300	2005	T9011A1C	2009	TD100	2016	TE5371	2009	TI398	2003
T109	2004	T1305	2005	T9011A1G	2009	TD101	2016	TE5376	2009	TI399	2003
T116	2007	T1306	2005	T9011AZ	2009	TD102	2016	TE5377	2009	TI400	2003
T126	2004	T1310	2005	T9011G(CD)	2011	TD200	2016	TE5378	2023	TI401	2003
T127	2004	T1314	2005	T9011G(EF)	2011	TD201	2016	TE5379	2023	TI402	2003
T129	2004	T1326	2004	T9011H(EF)	2011	TD202	2016	TE5447	2034	TI403	2003
T130	2004	T1327	2004	T9011I(EF)	2011	TD250	2016	TE5448	2023	TI407	2011
T131	2007	T1328	2004	T9011J(GH)	2011	TD400	2022	TE5449	2016	TI408	2011
T139	2009	T1334	2030	T9016F	2011	TD401	2022	TE5450	2016	TI409	2011
T158	2009	T1340A3H	2030	T9016H	2011	TD402	2022	TE5451	2016	TI410	2011
T163	2003	T1340A3I	2009	T9418	2014	TD500	2023	TF30	2005	TI411	2009
T185	2009	T1340A3J	2009	T9423	2009	TD501	2022	TF49	2005	TI415	2009
T230	2006	T1340A3K	2009	T9468	2023	TD550	2022	TF65	2004	TI416	2009
T232	2006	T1340A3I	2009	T9631	2030	TD2219	2016	TF65/30	2004	TI417	2009
T238	2006	T1341A3K	2014	T9681	2023	TD2905	2023	TF66	2004	TI418	2009
T243	2018	T1346	2004	T10010	2005	TE-500-E	2028	TF66/30	2004	TI419	2009
T255	2009	T1352	2005	T11618	2004	TE897	2009	TF66/60	2004	TI480	2009
T277	2009	T1363	2004	T13000	2005	TE706	2015	TF70	2001	TI482	2009
T278	2003	T1364	2004	T21638	1104	TE1420	2009	TF71	2001	TI483	2009
T279	2003	T1387	2003	T21639	562	TE1990	2012	TF72	2002	TI484	2009
T281	2007	T1388	2003	T42692-1R	1139	TE2369	2016	TF75	2005	TI485	2009
T282	2007	T1389	2003	T42692-001	1139	TE2484	2010	TF77	2005	TI492	2009
T339	2018	T1390	2003	T50339A	2005	TE2711	2015	TF78	2006	TI493	2009
T342	2018	T1391	2003	T50631	2003	TE2712	2015	TF78/30	2006	TI494	2009
T344	2018	T1400	2003	T50818	2003	TE2713	2015	TF78/60	2043	TI495	2009
T345	2026	T1401	2003	T50931B	2003	TE2714	2015	TF80/302	2006	TI496	2009
T348	2005	T1402	2003	T50933B	2005	TE2715	2015	TG2SC85(Y)	2008	TI642B	2011
T386	2009	T1403	2003	T51573A	2003	TE2716	2015	TG2SC538-D-A	2014	TI904	2009
T399	2009	T1407	2015	T52054	2004	TE2921	2013	TG2SC536-E-A	2014	TI3010	2005
T417	2016	T1408	2015	T52159	2005	TE2922	2013	TG2SC536-E-B	2014	TI3011	2005
T422	2019	T1409	2015	T59235A	2030	TE2923	2013	TG2SC536-F-A	2014	TI3012	2006
T452	2030	T1410	2015	T59247	2005	TE2924	2013	TG2SC536(C)	2014	TI3027	2006
T457-16	2009	T1411	2031	T59249	2005	TE2925	2013	TG2SC536(E)	2014	TI3028	2006
T458-16	2009	T1412	2013	T59276	2009	TE2926	2031	TG2SC927(C)	2015	TI3029	2006
T459	2021	T1415	2031	T59277	2009	TE3390	2013	TG2SC1175(C)	2030	TI303	2004
T460	2009	T1416	2009	T1003521	2011	TE3391	2013	TG48	2006	TI404	2005
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T462	2008	T1418	2031	T1008834	2031	TE3392	2013	TI-92	2016	TIP-29	2019
T472	2009	T1419	2031	T407185152	2023	TE3393	2013	TI-363	2007	TIP24	2018
T475	2021	T1430	2003	TA1575	2005	TE3394	2013	TI-364	2007	TIP29	2017
T611-1(RCA)	2018	T1454	2005	TA1575B	2004	TE3395	2013	TI-407	2011	TIP29A	2019
T612-1(RCA)	2018	T1459	2005	TA1614	2006	TE3396	2013	TI-408	2011	TIP30	2025
T625	2006	T1495	2016	TA1628	2003	TE3397	2013	TI-409	2011	TIP30A	2043
T650	2009	T1524BRN	2003	TA1650A	2005	TE3398	2013	TI-411	2016	TIP31	2017
T708	2021	T1524BRN/RED	2003	TA1655B	2004	TE3414	2013	TI-412	2014	TIP31A	2020
T709	2009	T1546	2005	TA1658	2003	TE3415	2013	TI-413	2014	TIP31C	2020
T716	2021	T1548	2005	TA1659	2003	TE3416	2013	TI-414	2014	TIP32	2025
T720	2015	T1573	2005	TA1660	2003	TE3417	2013	TI-415	2013	TIP32A	2043
T736	2009	T1574	2005	TA1662	2003	TE3605	2011	TI-416	2013	TIP33	2017
T811	2003	T1577	2005	TA1682	2006	TE3605A	2016	TI-417	2013	TIP33A	2020
T814	2005	T1583	2005	TA1682A	2006	TE3606	2011	TI-418	2013	TIP33B	2020
T815	2006	T1618	2005	TA1697	2005	TE3606A	2016	TI-419	2013	TIP33C	2020
T0003	2003	T1654	2003	TA1704	2004	TE3607	2011	TI-420	2013	TIP34	2027
T0004	2003	T1654BLU	2003	TA1705	2006	TE3662	2015	TI-421	2013	TIP34A	2043
T0005	2005	T1657	2003	TA1706	2004	TE3663	2015	TI-422	2016	TIP35	2019
T0012	2006	T1690	2003	TA1730	2005	TE3702	2034	TI-423	2016	TIP35A	2020
T0014	2009	T1691	2003	TA1731	2003	TE3704	2016	TI-424	2006	TIP36	2027
T0015	2006	T1692	2003	TA1755	2005	TE3705	2016	TI-425	2006	TIP36A	2043
T0033	2031	T1737	2003	TA1756	2005	TE3706	2016	TI-430	2016	TIP41	2017
T0038	2031	T1738	2003	TA1757	2003	TE3707	2013	TI-431	2016	TIP41A	2020
T0039	2031	T1740	2005	TA1763	2004	TE3708	2013	TI-432	2009	TIP41B	2020
T0040	2031	T1788	2005	TA1763A	2004	TE3709	2013	TI-433	2009	TIP41C	2020
T0041	2005	T1814	2003	TA1765	2006	TE3710	2013	TI-474	2013	TIP42	2025
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T0102	2005	T1904	2004	TA1773	2006	TE3843	2016	TI-480	2012	TIP61	2017
T0103	2005	T1909	2016	TA1778	2004	TE3844	2016	TI-481	2012	TIP61A	2020
T0104	2005	T1981	2004	TA1782	2004	TE3845	2016	TI-482	2012	TIP110	2020
T1000	2005	T2015	2003	TA1783	2004	TE3854	2015	TI-483	2012	TIP115	2043
T1001	2005	T2016	2003	TA1794	2006	TE3854A	2016	TI-484	2012	TIP120	2020
T1003	2005	T2017	2003	TA1796	2003	TE3855	2015	TI-485	2016	TIP125	2043
T1004	2005	T2019	2003	TA1797	2003	TE3855A	2016	TI-486	2016	TIP140	2020
T1005	2005	T2020	2005	TA1798	2003	TE3859	2016	TI-490	2008	TIP145	2043
T1006	2005	T2021	2003	TA1828	2003	TE3880	2016	TI-492	2013	TIP501	2006
T1007	2005	T2022	2003	TA1830	2005	TE3900	2031	TI-493	2013	TIP502	2006
T1008	2005	T2024	2005	TA1846	2003	TE3900A	2031	TI-494	2013	TIP3055	2020
T1008-834	2031	T2025	2005	TA1847	2003	TE3901	2031	TI-495	2013	TIP5530	2043
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DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-	DEVICE	RS 276-
TIS03	2034	TIS111	2009	TK30560	2041	TNJ72784	2009	TR-29	2027	TR54	2005
TIS04	2023	TIS112	2023	TM1711	2038	TO1-101	2009	TR-30	2034	TR55	2004
TIS14	2028	TIS113	2038	TM2613	2009	TO1-104	2016	TR-32	2012	TR58	2006
TIS18	1101	TIS114	2038	TM2711	2009	TO1-105	2009	TR-43B	2006	TR62	2003
TIS22	2013	TIS125	2016	TM2712	2023	TP3566	2012	TR-51	2003	TR64	2007
TIS23	2013	TIS133	2038	TN-3200	2016	TP3638	2024	TR-54	2034	TR65	2007
TIS24	2008	TIS134	2038	TN-3903	2009	TP3638A	2024	TR-57	2006	TR71	2005
TIS34	2036	TIS138	2023	TN-3904	2009	TP3702	2024	TR-62	2009	TR72	2005
TIS37	2023	TIX91	2003	TN-3905	2023	TP3703	2023	TR-69	2009	TR77	2007
TIS38	2023	TIX92	2003	TN-3906	2023	TP3704	2014	TR-70	2038	TR81	2005
TIS39	2038	TIX316	2003	TN55	2030	TP3705	2014	TR-76	2020	TR87	2007
TIS42	2036	TIX613	TWO2013	TN56	2009	TP3706	2014	TR-77	2043	TR88	2005
TIS44	2015	TIX614	TWO2013	TN57	2030	TP3707	2010	TR-86	2009	TR104	2007
TIS45	2016	TIX615	TWO2013	TN58	2009	TP3708	2010	TR-92	2020	TR105	2007
TIS46	2016	TIX616	TWO2013	TN59	2030	TP3709	2010	TR-158	2005	TR109	2005
TIS47	2016	TIX617	TWO2013	TN60	2009	TP3710	2010	TR-159(OLSON)	2002	TR139	2003
TIS48	2038	TIX618	TWO2013	TN61	2030	TP3711	2010	TR-160	2002	TR167	2001
TIS49	2038	TIX619	TWO2024	TN62	2009	TP4058	2023	TR-161	2003	TR182	2001
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TIS52	2016	TIX622	TWO2024	TN79	2008	TP4061	2023	TR-165	2021	TR193	2001
TIS53	2021	TIX623	TWO2024	TN80	2009	TP4062	2023	TR-166	2003	TR194	2001
TIS54	2021	TIX624	TWO2024	TN81	2038	TP4067-409	1139	TR-167	2022	TR211	2001
TIS55	2016	TIX712	2009	TN237	2030	TP4067-410	2014	TR-168	2004	TR212	2001
TIS56	2015	TIX904	2034	TN624	2008	TP4067-411	2009	TR-170	2005	TR213	2001
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TIS58	2035	TIX906	TWO2011	TN3200	2016	TP4124	2009	TR-172	2006	TR215	2007
TIS59	2038	TIX907	TWO2011	TNC61689	2009	TP4125	2023	TR-173	TWO2006	TR216	2001
TIS60	2013	TIX908	TWO2011	TNC61690	2021	TP4126	2023	TR-174	2006	TR217	2005
TIS60M	2030	TIX909	TWO2013	TNC61702	2013	TP4257	2021	TR-178(OLSON)	2006	TR218	2003
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TIS61M	2022	TIX811	TWO2013	TNJ-60804	2011	TP4274	2018	TR-180(OLSON)	2017	TR321	2007
TIS62	2011	TIX812	TWO2023	TNJ-60805	2011	TP4275	2016	TR-181(OLSON)	TWO2017	TR323	2007
TIS62A	2038	TIX813	TWO2023	TNJ-60806	2011	TP5135	2012	TR-183	2002	TR331	2005
TIS63	2011	TIX814	TWO2023	TNJ-60807	2011	TP5136	2012	TR-184	2002	TR332	2005
TIS63A	2038	TIX876	2015	TNJ-60608	2007	TPS6512	2010	TR-185(OLSON)	2006	TR333	2008
TIS64	2011	TIX880	2015	TNJ-60610	2007	TPS6513	2010	TR-1030-1	2023	TR383	2005
TIS64A	2038	TIX888	2030	TNJ-60612	2006	TPS6514	2010	TR-1030-2	2023	TR482	2007
TIS83	2038	TIX890	2022	TNJ60066	2011	TPS6515	2010	TR-1032-2	2023	TR508	2007
TIS84	2016	TIX891	2022	TNJ60070	2031	TPS6516	2023	TR-1033-1	2009	TR601	2005
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TIS90-GRN	2012	TIX3035	2012	TNJ60079	2005	TPS6523	2024	TR-8004-4	2030	TR760	2003
TIS90-GRY	2012	TIX3036	2012	TNJ60080	2005	TQ55	2040	TR-8004-5	2009	TR761	2003
TIS90-VIO	2012	TIXA01	2005	TNJ60604	2015	TQ56	2023	TR-8007	2021	TR762	2003
TIS90-YEL	2012	TIXA02	2005	TNJ60611	2005	TQ57	2040	TR-8010	2011	TR763	2005
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TIS90M-BLU	2012	TIXA04	2003	TNJ61217	2015	TQ60	2023	TR-8019	2025	TR792	2005
TIS90M-GRN	2012	TIXA05	2003	TNJ61218	2011	TQ62	2023	TR-8020	2025	TR801	2007
TIS90M-GRY	2012	TIXM01	2003	TNJ61219	2030	TQ63	2032	TR-8021	2030	TR802	2007
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TIS91	2025	TIXM04	2003	TNJ61222	2007	TQ5081	2030	TR-8025	2030	TR1031-2	2009
TIS91-BLU	2025	TIXM05	2003	TNJ61223	2007	TR-1R31	2016	TR-8026	2034	TR1032-1	2023
TIS91-GRN	2025	TIXM06	2003	TNJ61282	2007	TR-1R33	2009	TR-8027	2028	TR1036-1	2027
TIS91-GRY	2025	TIXM07	2003	TNJ61671	2002	TR-2R31	2016	TR-8028	2030	TR1036-2	2027
TIS91-VIO	2025	TIXM08	2005	TNJ61673	2028	TR-2R33	2015	TR-8029	2015	TR1036-3	2027
TIS91-YEL	2025	TIXM10	2003	TNJ61679	2015	TR-3R31	2016	TR-8030	2011	TR1037-1	2019
TIS91M	2025	TIXM11	2003	TNJ70478	2011	TR-3R33	2009	TR-8031	2011	TR1037-2	2019
TIS91M-BLU	2025	TIXM14	2005	TNJ70478-1	2011	TR-4R31	2009	TR-8032	2011	TR1037-3	2019
TIS91M-GRN	2025	TIXM15	2003	TNJ70479	2011	TR-4R33	2016	TR-8036	2009	TR1039-5	2008
TIS91M-GRY	2025	TIXM16	2005	TNJ70479-1	2011	TR-5R31	2018	TR-8037	2021	TR1512-80	2015
TIS91M-VIO	2025	TIXM17	2003	TNJ70480	2011	TR-5R33	2016	TR-8038	2011	TR2083-41	1102
TIS91M-YEL	2025	TIXM101	2003	TNJ70481	2023	TR-6R33	2016	TR-8040	2013	TR2083-42	1144
TIS92	2012	TIXM201	2003	TNJ70482	2030	TR-7R31	2018	TR-9100-18	2031	TR2083-44	1144
TIS92-BLU	2012	TIXM202	2003	TNJ70483	2006	TR-7S5	563	TR-02054-7	2025	TR2083-70	2028
TIS92-GRN	2012	TIXM203	2003	TNJ70484	2011	TR-01	2006	TR-BC147B	2009	TR2083-71	2011
TIS92-GRY	2012	TIXM204	2003	TNJ70537	2015	TR-01(PENNCREST)	2016	TR-BC149C	2014	TR2083-72	2011
TIS92-VIO	2012	TIXM205	2003	TNJ70540	2018	TR-01B(PENNCREST)	2016	TR-C44	2005	TR2083-73	2011
TIS92-YEL	2012	TIXM206	2003	TNJ70834	2007	TR-01C(PENNCREST)	2016	TR-C45	2007	TR2083-74	2011
TIS92M	2030	TIXP547	2020	TNJ70835	2007	TR-01E(PENNCREST)	2018	TR-C70	2005	TR2083-75	2007
TIS92M-BLU	2012	TIXS09	2011	TNJ70837	2009	TR-02	2006	TR-C71	2005	TR8010	2011
TIS92M-GRN	2012	TIXS10	2011	TNJ70838	2011	TR-03	2006	TR-C72	2005	TR8018	2041
TIS92M-GRY	2012	TIXS28	2015	TNJ70839	2011	TR-04	2005	TR-U1650E	2028	TR8034	2009
TIS92M-VIO	2012	TIXS29	2015	TNJ70840	2011	TR-04C(PENNCREST)	2025	TR-U1835E	2028	TR8035	2011
TIS92M-YEL	2012	TIXS30	2015	TNJ70886	2008	TR-05	2005	TR2SC1342	2015	TR8036	2009
TIS93	2009	TIXS31	2015	TNJ70891	2014	TR-06	2004	TR6S	561	TR8039	2011
TIS93-BLU	2025	TIXS39	2038	TNJ71034	2014	TR-06(PENNCREST)	2016	TR6SB	562	TR8040	2009
TIS93-GRN	2025	TIXS3C	2003	TNJ71035	2030	TR-07	2005	TR03	2001	TR01014	2014
TIS93-GRY	2025	TIXS3C	2001	TNJ71036	2009	TR-07(PENNCREST)	2018	TR04	2001	TR01015	2014
TIS93-VIO	2025	TIX41C	2003	TNJ71037	2009	TR-08	2002	TR05	2001	TR01026	2011
TIS93-YEL	2025	TIX42C	2003	TNJ71173	2011	TR-08(PENNCREST)	2002	TR07	2001	TR01037	2014
TIS93M-BLU	2025	TIX45C	2003	TNJ71234	2030	TR-09	2002	TR08	2001	TR01040	2014
TIS93M-GRN	2025	TIX82	2016	TNJ71271	2014	TR-10	2001	TR12	2005	TR01045	2018
TIS93M-GRY	2025	TIX582	2022	TNJ71277	2009	TR-11	2003	TR12SB	564	TR01056-5	2018
TIS93M-VIO	2025	TK1228-1001	2003	TNJ71496	2011	TR-12	2003	TR13	2005	TR01057-3	2018
TIS93M-YEL	2025	TK1228-1002	2004	TNJ71773	2023	TR-13	2003	TR14	2005	TR01062-1	2030
TIS94	2009	TK1228-1003	2004	TNJ71774	2023	TR-14	2005	TR15	2005	TR01062-7	2009
TIS94(AFAMP)	2009	TK1228-1004	2004	TNJ71837	2015	TR-15	2004	TR16	2005	TR01073	2015
TIS94(XSTR)	2009	TK1228-1005	2004	TNJ71863	2015	TR-16	2006	TR17	2005	TR01074	2015
TIS95	2030	TK1228-1006	2004	TNJ71865	2014	TR-17	2003	TR18	2007	TR02020-2	2022
TIS97	2011	TK1228-1007	2004	TNJ72148	2041	TR-17A	2003	TR19	2007	TR02062-6	2023
TIS98	2009	TK1228-1008	2009	TNJ72150	1139	TR-18	2005	TR20	2023	TR02063-8	2023
TIS100	2008	TK1228-1009	2009	TNJ72277	2015	TR-19	2021	TR21	2005	TR06014	2028
TIS101	2008	TK1228-1010	2016	TNJ72278	2007	TR-20	2023	TR34	2004	TR12001-4	1102
TIS104	2034	TK1228-1011	2016	TNJ72279	2015	TR-21	2009	TR43	2004	TR14002-6	563
TIS105	2015	TK1228-1012	2016	TNJ72280	2009	TR-22	2009	TR44	2004	TR35144	2006
TIS107	2009	TK9201	2041	TNJ72281	2009	TR-23	2030	TR45	2004	TR35524	

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TR310075	2004	TRS1804LP	2008	TV-92	2009	TV24942	1114	TVSFUIN	1139	UC125	2028
TR310159	2005	TRS2004	2008	TV-93	2023	TV24983	2002	TVSGP2-354	1144	UF-1	1139
TR310224	2003	TRS2004LP	2008	TV-117	2019	TV24984	2005	TVSHFSD-1A	1139	UF-SD1	1102
TR310225	2007	TS2254	2008	TV15A	2011	TV241013	1136	TVSJL41A	1139	UF01	1139
TR310231	2009	TS2254LP	2008	TV17	2016	TV241073	1139	TVSMA26	1144	UG1888	1144
TR310232	2007	TS2504	2008	TV18	2011	TV241074	1139	TVSMR1C	1139	UO-5E	1144
TR310235	2007	TRS2504LP	2008	TV20	2011	TV241077	2006	TVSQA01-14RD	2008	UPC-555A	1738
TR310236	2002	TS2754	2008	TV22	2011	TVCM-551	2039	TVSRA-1Z	1139	UP1706	2016
TR310243	2009	TRS2754LP	2008	TV23	2018	TVM35	1139	TVSRD9AL	562	UP1706A	2016
TR310244	2011	TS3011	2008	TV25	2030	TVM56	1139	TVSS1P20	1139	UP1706B	2016
TR310245	2009	TS3012	2008	TV26	2030	TVM511	1139	TVSS1R20	1139	UP1718A	2009
TR310249	2015	TS3014	2008	TV29	2025	TVM529	1152	TVSS1R80	1139	UP1956	2008
TR310250	2011	TS3014LP	2008	TV32	2011	TVM535	1139	TVSS3G4	1114	UP11303	2008
TR310251	2004	TRS3015LP	2011	TV33	2011	TVS-0V-02	1139	TVSSA-2B	1114	UP11305	2006
TR310252	2005	TS3254	2008	TV35	2011	TVS-1CS1255HF	2009	TVSSB-2T	1104	UP11307	2006
TR310255	2004	TRS3254LP	2008	TV36	2016	TVS-1S18	2011	TVSSD-1Y	1139	UP11309	2008
TR0573486	2015	TS97-1	2023	TV37	2011	TVS-1S750	1101	TVSSID30-15	1114	UP11345	2006
TR0573491	2009	TS162	2005	TV38	2011	TVS-2B171A	2005	TVSSV02	1139	UP11613	2008
TR0575002	1102	TS163	2005	TV39	2011	TVS-2SA385-L	2004	TVSUFSD1F	1139	UP11711	2008
TR0575005	1102	TS164	2005	TV40	2009	TVS-2SB126V	2008	TVSW04	1152	UPI2217	2038
TR2327293	2009	TS165	2005	TV41	2018	TVS-2SB171	2005	TVSW04M	1152	UPI2218	2038
TR2327363	2014	TS166	2005	TV42	2018	TVS-2SB172F	2005	TW135	2023	UPI2222	2016
TR2327443	2014	TS173	2006	TV43	2011	TVS-2SB176	2003	TX-100-1	2009	UPI2222B	2009
TR2327444	2014	TS176	2006	TV44	2023	TVS-2SB449F	2008	TX-100-2	2009	UPI2222P	2009
TR2327607	2019	TS602	2005	TV45	2030	TVS-2SC287A	2015	TX-100-4	2030	UPI4046-46	2009
TR2327743	2023	TS603	2005	TV46	2009	TVS-2SC288A	2015	TX-101-12	2009	UPI4047-46	2009
TR2337011	1144	TS604	2005	TV47	2023	TVS-2SC313	2015	TX-102-1	2009	UPT011	2008
TR228735045311	2011	TS609	2006	TV49	2030	TVS-2SC466	2015	TX-104-3	2006	UPT012	2008
TR228735048011	2015	TS610	2006	TV50	2011	TVS-2SC538	2018	TX-106-1	2006	UPT013	2008
TR228735048617	2011	TS612	2006	TV51	2030	TVS-2SC562	2009	TX-107-1	2009	UPT211	2008
TR228735048618	2011	TS613	2006	TV52	2030	TVS-2SC563	2011	TX-107-3	2030	UPT212	2008
TR228735120325	2028	TS614	2006	TV53	2018	TVS-2SC563A	2011	TX-107-4	2009	UPT213	2008
TR228736002003	1102	TS615	2005	TV54	2011	TVS-2SC605	2015	TX-107-5	2009	UPT214	2008
TR228736002004	1136	TS616	2005	TV56	2009	TVS-2SC606	2015	TX-107-6	2009	UPT215	2008
TRAPLC871	2035	TS617	2005	TV57	2011	TVS-2SC645	2009	TX-107-10	2009	V-210C	1102
TRBC147B	2009	TS618	2005	TV58	2011	TVS-2SC645A	2015	TX-107-12	2015	V-10916-3	1102
TRL2014	2006	TS619	2005	TV59	2018	TVS-2SC645B	2008	TX-108-1	2009	V0-3C	1104
TRL2254S	2008	TS620	2005	TV60	2011	TVS-2SC645C	2009	TX-119-1	2009	V0-6B	1139
TRL2504	2008	TS621	2005	TV61	2004	TVS-2SC683	2015	TX-122-1	2034	V0-6C-401	1139
TRL2504S	2008	TS627	2005	TV65	2009	TVS-2SC828	2031	TX-128-1	2030	V6/2R	2004
TRL2754S	2008	TS627A	2005	TV80	2028	TVS-2SD226A	2017	TX-135	2030	V6/2RC	2004
TRL3014	2008	TS627B	2005	TV83	2028	TVS-2SD226O	2017	TX-136	2025	V6/2RJ	2004
TRL3014S	2008	TS628	2005	TV85	2012	TVS-2SD226P	2017	TX-138	2018	V6/4R	2004
TRM13	2005	TS630	2005	TV108	2041	TVS-2SV126F	2006	TX-140	2018	V6/4RC	2004
TRM14	2005	TS672A	2005	TV109	2019	TVS-828A	2011	TX102-1	2016	V6/4RJ	2005
TRM15	2005	TS672B	2005	TV112	2019	TVS-CS1256G	2021	TX102-2	2016	V6/8R	2005
TRM16	2005	TS673A	2005	TV115	2011	TVS-HF-SD-12	1139	TX106-1	2005	V6/8RJ	2005
TRM17	2005	TS673B	2005	TV116	2011	TVS-RD13A	563	TX107-3	2011	V01G	1139
TRM21	2005	TS739	2005	TV1000	2005	TVS-S1B02-03CR	1139	TX107-12	2011	V03C	1139
TRM81	2005	TS739B	2005	TV2429	2005	TVS-ZB1-11	563	TX112-1	2009	V03E	1139
TRM2014	2008	TS740	2005	TV2434	2003	TVS0A90	1102	TX120	2011	V06-G	1139
TRM2254S	2008	TS765	2005	TV2455	2003	TVS1N741H	563	TX122	2034	V06(DIO)	1102
TRM2504	2008	TS1007	2005	TV24102	2011	TVS1P80	1114	TX124-1	2025	V06(RECT)	1139
TRM2504S	2008	TS1266	2005	TV24137	2003	TVS1S1850	1139	TX125-1	2021	V06A	1139
TRM2754S	2008	TS1657	2006	TV24142	2006	TVS1S1906	1139	TX128-1	2018	V06C	1139
TRM3014	2008	TS1727	2005	TV24148	2011	TVS1S1950	1139	TX134-1	2025	V06E	1114
TRM3014A	2008	TS1728	2005	TV24152	2007	TVS1S2076	1144	TX135	2018	V06G	1114
TRM3014S	2008	TS1792	2004	TV24154	2005	TVS2SA385	2004	TX136	2025	V09-E	1139
TRO1026	2011	TS2218	2030	TV24156	2005	TVS2SA564	2023	TX138	2018	V09G	1139
TRO1037	2009	TS2219	2030	TV24158	2003	TVS2SA564A	2021	TX139	2025	V10/1SJ	2003
TRO1053-1	2023	TS2221	2009	TV24160	2011	TVS2SA564C	2021	TX140	2018	V10/2S	2004
TRO1054-1	2030	TS2222	2009	TV24161	2011	TVS2SA564P	2021	TX141	2011	V10/2SJ	2004
TRO2051-1	2023	TS2906	2023	TV24164	2008	TVS2SA564Q	2021	TZ81	2014	V11J	1139
TRO2062-1	2023	TS2907	2023	TV24172	2003	TVS2SB126V	2006	TZ82	2014	V11L	1139
TRO6011	2028	TS9013	2011	TV24189	2005	TVS2SB171	2005	TZ551	2023	V15/10DP	2006
TRO9005	1738	TSB-1000	1139	TV24194	2005	TVS2SC58A	2008	TZ552	2023	V15/20DP	2006
TRO9006	1738	TSC136	1144	TV24209	2015	TVS2SC288A	2015	TZ553	2023	V15/20R	2003
TRO10602-1	2011	TSC159	1139	TV24210	2015	TVS2SC538A	2030	TZ554	2023	V15/30DP	2006
TRS100	2008	TSC614	2011	TV24214	2021	TVS2SC562	2011	TZ581	2023	V30/10DP	2006
TRS100A	2008	TSC695	2009	TV24215	2030	TVS2SC563A	2011	TZ582	2023	V30/20DP	2006
TRS100HC	2008	TSC722	2009	TV24216	2030	TVS2SC564R	2021	TZ1151	2021	V30/30DP	2006
TRS101	2008	TSC767	2014	TV24278	1139	TVS2SC644	2030	TZ1152	2030	V50A260-36(GE DIO)	1102
TRS120	2008	TT2SA495-O-A	2023	TV24281	2030	TVS2SC645	2030	TZ1153	1144	V50A260-36(SI DIO)	1144
TRS125HC	2008	TT2SA495-Y-A	2023	TV24282	1139	TVS2SC645A	2015	U8B770339	1738	V60/10DP	2006
TRS140	2008	TV-6	2009	TV24313	2015	TVS2SC645B	2015	U05G	1139	V60/20DP	2006
TRS140MP	2008	TV-7	2011	TV24337	2008	TVS2SC645C	2015	U06C	1139	V60/30DP	2006
TRS150HC	2008	TV-15B	2011	TV24341	2006	TVS2SC683	2011	U460A	2015	V110	2037
TRS160	2008	TV-17	2009	TV24363	2021	TVS2SC684	2015	U460A,B	2015	V112	2037
TRS160MP	2008	TV-18	2016	TV24370	2005	TVS2SC696	2030	U460B	2015	V114	2037
TRS175HC	2008	TV-19	2008	TV24372	2009	TVS2SC762	2011	U535A	2015	V120	2037
TRS180	2008	TV-20	2011	TV24380	2015	TVS2SC828	2009	U535A,B	2015	V146	2037
TRS180MP	2008	TV-21	2030	TV24382	2011	TVS2SC828P	2015	U535B	2015	V148	2037
TRS200	2008	TV-22	2012	TV24383	2030	TVS2SC828Q	2015	U1177	2028	V149	2037
TRS200HC	2008	TV-23	2030	TV24385	2015	TVS2SC828R	2015	U1178	2028	V205	2034
TRS200MP	2008	TV-28	2030	TV24387	2011	TVS2SC829B	2009	U1180	2028	V220	2015
TRS225	2008	TV-32	2030	TV24399	2011	TVS2SC840A	2011	U1181	2028	V221	2015
TRS225MP	2008	TV-40	2009	TV24435	2008	TVS2SC968	2018	U1285	2028	V222	2015
TRS250	2008	TV-41	2030	TV24436	2015	TVS2SC1255H	2018	U1322	2028	V297	2009
TRS250MP	2008	TV-42	2009	TV24437	2015	TVS2SC5640	2021	U1323	2028	V405	2015
TRS275	2008	TV-44	2023	TV24438	2015	TVS2SD226A	2019	U1324	2028	V405A	2021
TRS275MP	2008	TV-46	2009	TV24453	2009	TVS10D	1139	U1585E	2009	V410	2021
TRS301	2008	TV-47	2023	TV24454	2011	TVS10D8	1114	U1585F	2015	V415	2013
TRS301LC	2008	TV-49	2030	TV24458	2009	TVSB01-02	1144	U1585F,H	2015	V417	2015
TRS301MP	2008	TV-51	2030	TV24495	2023	TVSBAX13	1102	U1585H	2015	V435A	2034
TRS325	2008	TV-53	2009	TV24554	1144	TVSBB2	1139	UA-703E	1738	V575	2017
TRS325MP	2008	TV-57	2009	TV24571	2011	TVSBB10	1114	UA703	1738	V643	2017
TRS1004	2008	TV-58	2009	TV24573	2011	TVSCS1255H	2030	UA703A	1738	V654	2043
TRS1004LP	2008	TV-59	2009	TV24574	2011	TVSCS1255HF	2025	UA703E	1738	V655	2022
TRS1204	2008	TV-60	2009	TV24576	2030	TVSCS1256HG	2025	UA703HC	1738	V721	2021
TRS1204LP	2008	TV-65	2009	TV24589	2015	TVSDS-1M	1139	UC20	2028	V741	

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VC734E	2035	XA495	2021	ZT204	2016						
VC1100	2021	XA495AC	2023	ZT204P	2016						
VD-1122	1144	XA495C	2021	ZT210	2043						
VD-1123	1144	XA701	2001	ZT280	2034						
VD1120	1139	XA702	2002	ZT281	2023						
VD1121	1144	XA703	2001	ZT282	2023						
VD1124	1139	XB1	2005	ZT283	2023						
VD1213	1139	XB2	2007	ZT284	2023						
VFG2745B	2006	XB3	2007	ZT287	2034						
VFP2746C	2006	XB3B	2007	ZT402	2016						
VFP6537C	2006	XB3C	2007	ZT402P	2016						
VFQ2745F	2005	XB4	2002	ZT403	2016						
VFS2745	2004	XB5	2006	ZT403P	2016						
VFS2745J	2005	XB7	2006	ZT404	2016						
VFT2745H	2004	XB8	2003	ZT404P	2016						
VFU2746B	2006	XB9	2005	ZT600	2038						
VFY2745E	2007	XB10	2005	ZT696	2030						
VHD1N60-1	1102	XB102	2005	ZT697	2030						
VHDS1555-R-1	1144	XB103	2005	ZT706	2016						
VOG	1139	XB104	2003	ZT706A	2016						
VS-2SC58A	2008	XB112	2005	ZT708	2009						
VS-2SC324H	2009	XB113	2005	ZT709	2038						
VS2SC371-R-1	2009	XB408	2020	ZT917	2015						
VS2SC374-B-1	2014	XC101	2005	ZT918	2015						
VS2SC732-VIF	2014	XC121	2005	ZT1479	2020						
VSF2745	2007	XC155	2006	ZT1480	2020						
W1A	2028	XC156	2006	ZT1481	2020						
W1P	2028	XC371	2009	ZT1482	2020						
W06A	1139	XC372	2009	ZT1483	2020						
W06B	1144	XC373	2031	ZT1484	2020						
WADA-80	1144	XC374	2031	ZT1485	2020						
WC19862	2001	XJ13	2005	ZT1486	2020						
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WC19863	2005	XN12A	2006	ZT1488	2020						
WC19864	2005	XN12B	2006	ZT1489	2020						
WG-599	1144	XN12C	2006	ZT1490	2020						
WG-713	1144	XN12E	2006	ZT1613	2008						
WG-1012	1144	XNC101	2002	ZT1700	2020						
WG91	562	XZ-092	562	ZT1701	2020						
WG713	1144	XZ-152	564	ZT1702	2020						
WG1010	1144	XZ090	562	ZT1708	2016						
WG1010A	1144	YAAD007	1144	ZT1711	2008						
WG1010B	1144	YAAD010	1144	ZT2102	2008						
WG1012	1144	YAAN2SD141	2018	ZT2205	2016						
WG1014A	1144	YD1121	1144	ZT2206	2016						
WG1021	1144	YEAD015	562	ZT2270	2008						
WIB	2028	YOD4	1104	ZT2368	2009						
WIC	2029	YV1	2005	ZT2369	2009						
WIH	2029	YV2	2005	ZT2369A	2009						
WIM	2029	Z6	1102	ZT2475	2038						
WIP	2035	ZB-1-9.5	562	ZT2476	2038						
WRR1952	2031	ZB1-6	561	ZT2477	2038						
WRR1953	2031	ZB1-9	562	ZT2708	2038						
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WRT114	2003	ZB1-12	562	ZT3440	2008						
WSD002C	1144	ZB1-15	564	ZT3600	2015						
WTV3MC	2005	ZDT10	2016	ZTR-1N60	1102						
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WTV6PWR	2006	ZDT20	2016	ZTR-W06B	1144						
WTV12MC	2005	ZDT21	2016	ZTX108	2016						
WTV12PWR	2006	ZDT30	2011	ZTX108A (RED)	2016						
WTV15VMG	2004	ZDT31	2011	ZTX108B (GRN)	2016						
WTV20MC	2005	ZE9.1	562	ZTX108C (BLU)	2016						
WTV20VH6	2005	ZQ-6	561	ZTX109	2016						
WTV20VMG	2005	ZT20	2016	ZTX109B (GRN)	2016						
WTV25PWR	2006	ZT21	2016	ZTX109C (BLU)	2016						
WTV30VH6	2005	ZT22	2009	ZTX114	2016						
WTV30VMG	2005	ZT23	2009	ZTX300	2016						
WTV40PWR	2006	ZT24	2009	ZTX301	2016						
WTV99PWR	2006	ZT40	2016	ZTX302	2016						
WTV199PWP	2006	ZT41	2016	ZTX310	2016						
WTV199PWR	2006	ZT42	2009	ZTX311	2016						
WTV299PWR	2006	ZT43	2009	ZTX312	2016						
WTVAT6	2005	ZT44	2009	ZTX313	2038						
WTVB5	2005	ZT60	2016	ZTX314	2038						
WTVB5A	2004	ZT61	2016	ZTX320	2015						
WTVB6	2005	ZT62	2016	ZTX321	2015						
WTVB6A	2005	ZT63	2009	ZTX330	2013						
WTVB6E	2005	ZT64	2009	ZTX331	2013						
WTVB6EA	2005	ZT80	2016	ZTX341	2012						
WTVBMC	2005	ZT81	2016	ZTX342	2012						
WX118UA	2041	ZT82	2016	ZTX360	2009						
WZ-090	562	ZT83	2009	ZTX500	2034						
WZ-092	562	ZT84	2009	ZTX501	2034						
WZ-094	562	ZT87	2016	ZTX502	2034						
WZ-120	563	ZT110	2016	ZTX510	2021						
WZ-150	564	ZT111	2016	ZTX530	2022						
WZ090	562	ZT112	2016	ZTX531	2022						
WZ092	562	ZT113	2009	ZTX4400	2009						
WZ120	563	ZT114	2009	ZTX4401	2009						
X16A545-7	2013	ZT117	2016	ZW0-9.1	562						
X16A1938	2013	ZT131	2023	ZW9.1	562						
X42	2005	ZT152	2022								
X137	2006	ZT153	2023								
X1005	2006	ZT154	2023								
XA101	2003	ZT180	2034								
XA102	2003	ZT181	2023								
XA111	2003	ZT182	2023								
XA112	2003	ZT183	2023								
XA122	2005	ZT184	2023								
XA123	2003	ZT187	2034								
XA124	2003	ZT202	2016								
XA126	2003	ZT202P	2016								
XA131	2003	ZT203	2016								
XA494	2022	ZT203P	2016								

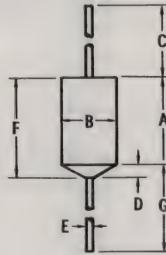
QUICK REFERENCE: CASE STYLE

A1

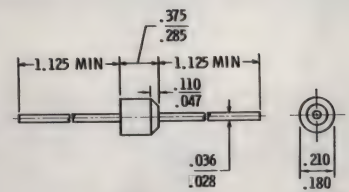


MAY SHOW COLOR BANDS TO DENOTE POLARITY.

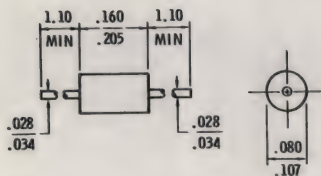
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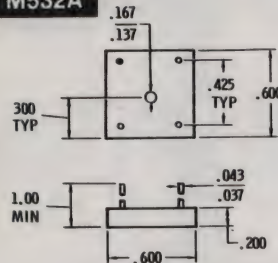
DO27



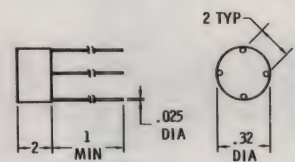
DO41



M532A

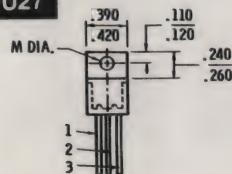


M548



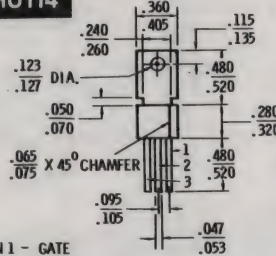
POS RED OR SQUARE LEAD.

MU27



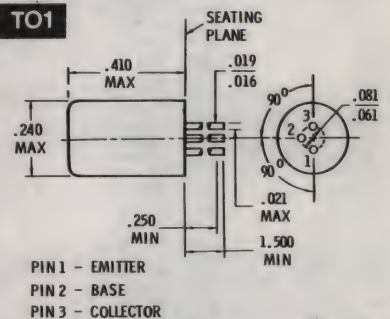
SCR	TRIAC
PIN 1 - CATHODE	ANODE 1
PIN 2 - ANODE	ANODE 2
PIN 3 - GATE	GATE

MU114



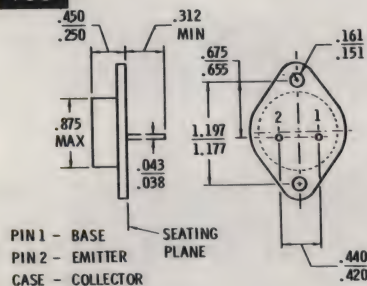
PIN 1 - GATE
PIN 2 - ANODE
PIN 3 - CATHODE

TO1



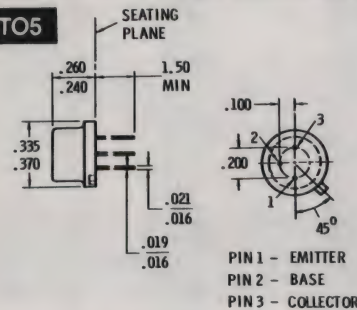
PIN 1 - EMITTER
PIN 2 - BASE
PIN 3 - COLLECTOR

TO3



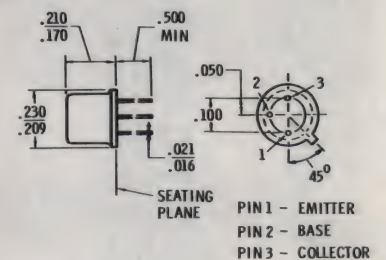
PIN 1 - BASE
PIN 2 - EMITTER
CASE - COLLECTOR

TO5



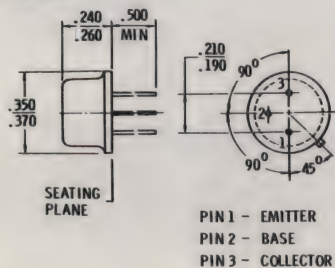
PIN 1 - EMITTER
PIN 2 - BASE
PIN 3 - COLLECTOR

TO18



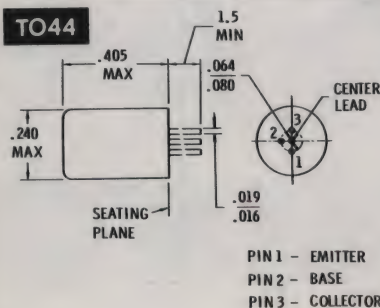
PIN 1 - EMITTER
PIN 2 - BASE
PIN 3 - COLLECTOR

TO39



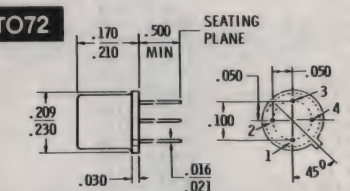
PIN 1 - EMITTER
PIN 2 - BASE
PIN 3 - COLLECTOR

TO44



PIN 1 - EMITTER
PIN 2 - BASE
PIN 3 - COLLECTOR

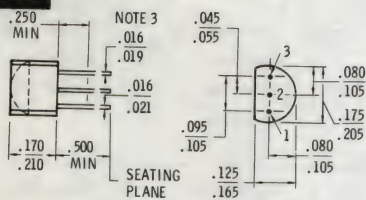
TO72



BIPOLAR TRANSISTORS	FET
PIN 1 - EMITTER	PIN 1 - SOURCE
PIN 2 - BASE	PIN 2 - DRAIN
PIN 3 - COLLECTOR	PIN 3 - GATE
PIN 4 - CASE	PIN 4 - CASE

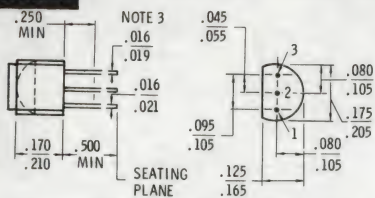
QUICK REFERENCE: CASE STYLE

TO92



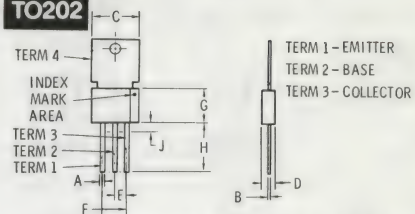
FET				
N-CHANNEL	PIN	P-CHANNEL	SCR	BIPOLAR
SOURCE	1	SOURCE	1-CATHODE	PIN 1 - E
GATE	2	DRAIN	2-GATE	PIN 2 - B
DRAIN	3	GATE	3-ANODE	PIN 3 - C

TO92 +

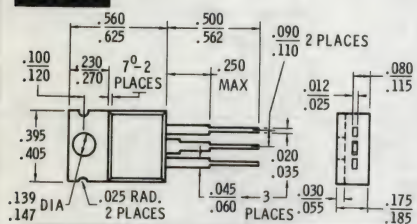


FET				
N-CHANNEL	PIN	P-CHANNEL	SCR	BIPOLAR
SOURCE	1	SOURCE	1-CATHODE	PIN 1 - E
GATE	2	DRAIN	2-GATE	PIN 2 - B
DRAIN	3	GATE	3-ANODE	PIN 3 - C

TO202

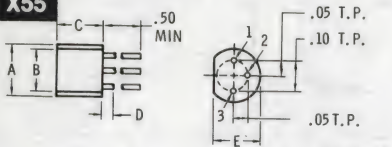
[illegible]

TO220



BIPOLAR TRANSISTORS	TRIAC
PIN 1 - BASE	PIN 1 - ANODE 1
PIN 2 - COLLECTOR	PIN 2 - ANODE 2
PIN 3 - EMITTER	PIN 3 - GATE


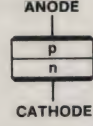
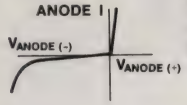

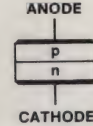
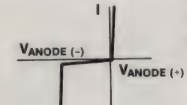
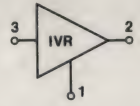
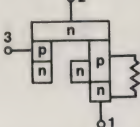
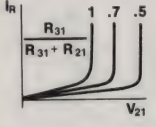

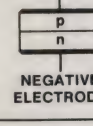
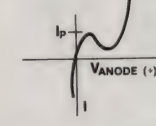

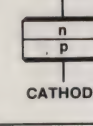
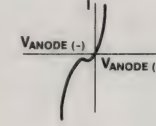

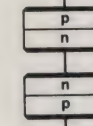
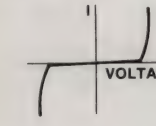

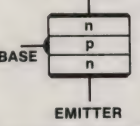
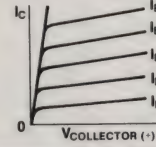
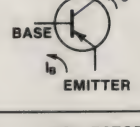
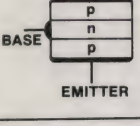
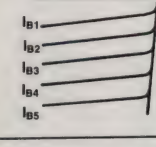
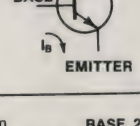
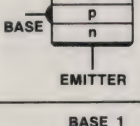
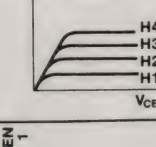
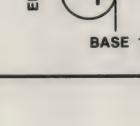
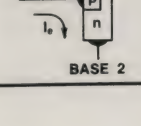
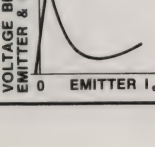
X55



	A	B	C	D	E
X55	$\frac{.195}{.205}$	$\frac{.150}{.170}$	$\frac{.180}{.190}$.015	$\frac{.155}{.165}$
X55c	$\frac{.200}{\text{MAX}}$.150	$\frac{.177}{\text{MAX}}$.062	$\frac{.149}{\text{MAX}}$

PIN 1 - B2
PIN 2 - E
PIN 3 - B1

MAJOR SEMICONDUCTOR COMPONENTS

NAME OF DEVICE	CIRCUIT SYMBOL	COMMONLY USED JUNCTION SCHEMATIC	ELECTRICAL CHARACTERISTICS	MAX RATINGS AVAILABLE	MAJOR APPLICATIONS	ROUGHLY ANALOGOUS TO:
Diode or Rectifier			 Conducts easily in one direction, blocks in the other	1500 Amps 3000 Volts	Rectification Blocking Detecting Steering	Check valve Diode tube Gas diode
Avalanche (Zener) Diode			 Constant voltage characteristic in negative quadrant	22 Volts 1 Watt	Regulation Reference Clipping	V-R tube
Integrated Voltage Regulator (IVR)			 Programmed to desired V_{21} by two resistors	40 Volts 100 mA 0.4 Watts	Shunt voltage regulator Reference element Error modifier Level sensing Level shifting	Avalanche Diode
Tunnel Diode			 Displays negative resistance when current exceeds peak point current I_p	Peak point current = 100 mA Resistive cutoff freq. = 40 Gc	UHF converter Logic circuits Microwave circuits Level sensing	None
Back Diode			 Similar characteristics to conventional diode except very low forward voltage drop	5 mA 400 mV	Microwave mixers and low power oscillators	None
Thyrector			 Rapidly increasing current above rated voltage in either direction	70 A peak pulse (2" Sq. cell)	Transient voltage suppression and arc suppression	Thyrite Two avalanche diodes in inverse-series connection
n-p-n Transistor			 Constant collector current for given base drive	300 Volts 25 Watts	Amplification Switching Oscillation	Pentode Tube
p-n-p Transistor			 Complement to n-p-n transistor	75 Volts 25 Watts	Amplification Switching Oscillation	None
Photo Transistor			 Incident light acts as base current of the photo transistor	45 Volts 0.25 Amps 0.6 Watts	Tape readers Card readers Position sensor Tachometers	None
Unijunction Transistor (UJT)			 Unijunction emitter blocks until its voltage reaches V_p ; then conducts	35 Volts 0.450 Watts	Interval timing Oscillation Level Detector SCR Trigger	None

MAJOR SEMICONDUCTOR COMPONENTS

NAME OF DEVICE	CIRCUIT SYMBOL	COMMONLY USED JUNCTION SCHEMATIC	ELECTRICAL CHARACTERISTICS	MAX RATINGS AVAILABLE	MAJOR APPLICATIONS	ROUGHLY ANALOGOUS TO:
Complementary Unijunction Transistor (CUJT)				30 Volts 0.30 Watts 0.15 Amps	High stability timers Oscillators and level detectors	None
Programmable Unijunction Transistor (PUT)				40 Volts 0.30 Watts 0.15 Amps	Low cost timers and oscillators Long period timers SCR trigger Level detector	UJT
Silicon Controlled Rectifier (SCR)				1000 Amps 1800 Volts	Power switching Phase control Inverters Choppers	Gas thyatron or ignitron
Complementary Silicon Controlled Rectifier (CSCR)				50 Volts 0.25 Amps 0.45 Watts	Ring counters Low speed logic Lamp driver	None
Light Activated SCR* (LASCR)				1.6 Amps 200 Volts	Relay Replacement Position controls Photoelectric applications Slave flashes	None
Silicon Controlled Switch* (SCS)				100 Volts 200 mA	Logic applications Counters Nixie drivers Lamp drivers	Complementary transistor pair
Silicon Unilateral Switch (SUS)				0.350 Watts 0.200 Amps 10 Volts	Switching Circuits Counters SCR Trigger Oscillator	Shockley or 4-layer diode
Silicon Bilateral Switch (SBS)				0.350 Watts 0.200 Amps 10 Volts	Switching Circuits Counters TRIAC Phase Control	Two inverse Shockley diodes
Triac				25 Amps 500 Volts	AC switching Phase control Relay replacement	Two SCR's in inverse parallel
Diac Trigger				40 Volts 2 Amps peak	Triac and SCR trigger Oscillator	Neon lamp

*Light Activated SCS also available.

GLOSSARY OF WORDS, SYMBOLS AND ABBREVIATIONS

The following letter symbols and abbreviations are recommended by the Joint Electron Device Engineering Council (JEDEC) of the Electronic Industries Association (EIA) and the National Electrical Manufacturers Association (NEMA) for use in semiconductor device data sheets and specifications.

A, a —Anode	G_{pc} —Common-collector small-signal insertion power gain
B, b —Base	G_{PE} —Common-emitter large-signal insertion power gain
b_{fs} —Common-source small-signal forward transfer susceptance	G_{pe} —Common-emitter small-signal insertion power gain
b_{is} —Common-source small-signal input susceptance	G_{pg} —Common-gate small-signal insertion power gain
b_{os} —Common-source small-signal output susceptance	G_{ps} —Common-source small-signal insertion power gain
b_{rs} —Common-source small-signal reverse transfer susceptance	g_{rs} —Common-source small-signal reverse transfer conductance
C, c —Collector	G_{TB} —Common-base large-signal transducer power gain
C_{cb} —Collector-base interterminal capacitance	G_{tb} —Common-base small-signal transducer power gain
C_{ce} —Collector-emitter interterminal capacitance	G_{TC} —Common-collector large-signal transducer power gain
C_{ds} —Drain-source capacitance	G_{tc} —Common-collector small-signal transducer power gain
C_{du} —Drain-substrate capacitance	G_{TE} —Common-emitter large-signal transducer power gain
C_{eb} —Emitter-base interterminal capacitance	G_{te} —Common-emitter small-signal transducer power gain
C_{ibo} —Common-base open-circuit input capacitance	G_{tg} —Common-gate small-signal transducer power gain
C_{ibs} —Common-base short-circuit input capacitance	G_{ts} —Common-source small-signal transducer power gain
C_{ieo} —Common-emitter open-circuit input capacitance	h_{FB} —Common-base static forward current transfer ratio
C_{ies} —Common-emitter short-circuit input capacitance	h_{fb} —Common-base small-signal short-circuit forward current transfer ratio
C_{iss} —Common-source short-circuit input capacitance	h_{FC} —Common-collector static forward current transfer ratio
C_{obo} —Common-base open-circuit output capacitance	h_{fc} —Common-collector small-signal short-circuit forward current transfer ratio
C_{obs} —Common-base short-circuit output capacitance	h_{FE} —Common-emitter static forward current transfer ratio
C_{oeo} —Common-emitter open-circuit output capacitance	h_{fe} —Common-emitter small-signal short-circuit forward current transfer ratio
C_{oes} —Common-emitter short-circuit output capacitance	h_{FEL} —Inherent large-signal forward current transfer ratio
C_{oss} —Common-source short-circuit output capacitance	h_{IB} —Common-base static input resistance
C_{rbs} —Common-base short-circuit reverse transfer capacitance	h_{ib} —Common-base small-signal short-circuit input impedance
C_{rcs} —Common-collector short-circuit reverse transfer capacitance	h_{IC} —Common-collector static input resistance
C_{res} —Common-emitter short-circuit reverse transfer capacitance	h_{ic} —Common-collector small-signal short-circuit input impedance
C_{rss} —Common-source short-circuit reverse transfer capacitance	h_{IE} —Common-emitter static input resistance
C_{tc} —Collector depletion-layer capacitance	h_{ie} —Common-emitter small-signal short-circuit input impedance
C_{te} —Emitter depletion-layer capacitance	h_{ie(imag)} —Imaginary part of common-emitter small-signal short-circuit input impedance
D, d —Drain	h_{ie(real)} —Real part of common-emitter small-signal short-circuit input impedance
E, e —Emitter	h_{ob} —Common-base small-signal open-circuit output admittance
η —Intrinsic standoff ratio	h_{oc} —Common-collector small-signal open-circuit output admittance
f_{hfb} —Common-base small-signal short-circuit forward current transfer ratio cutoff frequency	h_{oe} —Common-emitter small-signal open-circuit output admittance
f_{hfc} —Common-collector small-signal short-circuit forward current transfer ratio cutoff frequency	h_{oe(imag)} —Imaginary part of common-emitter small-signal open-circuit output admittance
f_{hfe} —Common-emitter small-signal short-circuit forward current transfer ratio cutoff frequency	
f_{max} —Maximum frequency of oscillation	
F_T —Transition frequency (frequency at which common-emitter small-signal forward current transfer ratio extrapolates to unity)	
G, g —Gate	
g_{fs} —Common-source small-signal forward transfer conductance	
g_{is} —Common-source small-signal input conductance	
g_{MB} —Common-base static transconductance	
g_{MC} —Common-collector static transconductance	
g_{ME} —Common-emitter static transconductance	
g_{os} —Common-source small-signal output conductance	
G_{PB} —Common-base large-signal insertion power gain	
G_{pb} —Common-base small-signal insertion power gain	
G_{PC} —Common-collector large-signal insertion power gain	

$h_{oe(\text{real})}$ — Real part of common-emitter small-signal open-circuit output admittance
 h_{rb} — Common-base small-signal open-circuit reverse voltage transfer ratio
 h_{rc} — Common-collector small-signal open-circuit reverse voltage transfer ratio
 h_{re} — Common-emitter small-signal open-circuit reverse voltage transfer ratio
 I_B — Base-terminal dc current
 I_b — Alternating component (rms value) of base-terminal current
 i_b — Instantaneous total value of base-terminal current
 I_{BEV} — Base cutoff current, dc
 $I_{B2(\text{mod})}$ — Interbase modulated current
 I_C — Collector-terminal dc current
 I_c — Alternating component (rms value) of collector-terminal current
 i_c — Instantaneous total value of collector-terminal current
 I_{CBO} — Collector cutoff current (dc), emitter open
 I_{CEO} — Collector cutoff current (dc), base open
 I_{CER} — Collector cutoff current (dc), specified resistance between base and emitter
 I_{CES} — Collector cutoff current (dc), base shorted to emitter
 I_{CEV} — Collector cutoff current (dc), specified voltage between base and emitter
 I_{CEX} — Collector cutoff current (dc), specified circuit between base and emitter
 I_D — Drain current, dc
 $I_{D(\text{off})}$ — Drain cutoff current
 $I_{D(\text{on})}$ — On-state drain current
 I_{DSS} — Zero-gate-voltage drain current
 I_E — Emitter-terminal dc current
 I_e — Alternating component (rms value) of emitter-terminal current
 i_e — Instantaneous total value of emitter-terminal current
 I_{EBO} — Emitter cutoff current (dc), collector open
 I_{EB20} — Emitter reverse current
 $I_{EC(\text{ofs})}$ — Emitter-collector offset current
 I_{ECS} — Emitter cutoff current (dc), base short-circuited to collector
 $I_{E1E2(\text{off})}$ — Emitter cutoff current
 I_F — For voltage-regulator and voltage-reference diodes: dc forward current. For signal diodes and rectifier diodes: dc forward current (no alternating component)
 I_f — Alternating component of forward current (rms value)
 i_f — Instantaneous total forward current
 $I_{F(\text{AV})}$ — Forward current, dc (with alternating component)
 I_{FM} — Maximum (peak) total forward current
 $I_{F(\text{OV})}$ — Forward current, overload
 I_{FRM} — Maximum (peak) forward current, repetitive
 $I_{F(\text{RMS})}$ — Total rms forward current
 I_{FSM} — Maximum (peak) forward current, surge
 I_G — Gate current, dc
 I_{GF} — Forward gate current
 I_{GR} — Reverse gate current
 I_{GSS} — Reverse gate current, drain short-circuited to source
 I_{GSSF} — Forward gate current, drain short-circuited to source
 I_{GSSR} — Reverse gate current, drain short-circuited to source
 I_I — Inflection-point current

$Im(h_{ie})$ — Imaginary part of common-emitter small-signal short-circuit input impedance
 $Im(h_{oe})$ — Imaginary part of common-emitter small-signal open-circuit output admittance
 I_O — Average forward current, 180° conduction angle, 60-Hz half sine wave
 I_P — Peak-point current
 I_R — For voltage-regulator and voltage-reference diodes: dc reverse current. For signal diodes and rectifier diodes: dc reverse current (no alternating component)
 I_r — Alternating component of reverse current (rms value)
 i_R — Instantaneous total reverse current
 $I_{R(\text{AV})}$ — Reverse current, dc (with alternating component)
 I_{RM} — Maximum (peak) total reverse current
 I_{RRM} — Maximum (peak) reverse current, repetitive
 $I_{R(\text{RMS})}$ — Total rms reverse current
 I_{RSM} — Maximum (peak) surge reverse current
 I_S — Source current, dc
 I_{SDS} — Zero-gate-voltage source current
 $I_{S(\text{off})}$ — Source cutoff current
 I_v — Valley-point current
 I_Z — Regulator current, reference current (dc)
 I_{ZK} — Regulator current, reference current (dc near breakdown knee)
 I_{ZM} — Regulator current, reference current (dc maximum rated current)
 K, k — Cathode
 L_c — Conversion loss
 M — Figure of merit
 NF_o — Overall noise figure
 NR_o — Output noise ratio
 P_{BE} — Power input (dc) to base, common emitter
 p_{BE} — Instantaneous total power input to base, common emitter
 P_{CB} — Power input (dc) to collector, common base
 p_{CB} — Instantaneous total power input to collector, common base
 P_{CE} — Power input (dc) to collector, common emitter
 p_{CE} — Instantaneous total power input to collector, common emitter
 P_{EB} — Power input (dc) to emitter, common base
 p_{EB} — Instantaneous total power input to emitter, common base
 P_F — Forward power dissipation, dc (no alternating component)
 p_F — Instantaneous total forward power dissipation
 $P_{F(\text{AV})}$ — Forward power dissipation, dc (with alternating component)
 P_{FM} — Maximum (peak) total forward power dissipation
 P_{IB} — Common-base large-signal input power
 p_{ib} — Common-base small-signal input power
 P_{IC} — Common-collector large-signal input power
 p_{ic} — Common-collector small-signal input power
 P_{IE} — Common-emitter large-signal input power
 p_{ie} — Common-emitter small-signal input power
 P_{OB} — Common-base large-signal output power
 p_{ob} — Common-base small-signal output power
 P_{OC} — Common-collector large-signal output power
 p_{oc} — Common-collector small-signal output power
 P_{OE} — Common-emitter large-signal output power
 p_{oe} — Common-emitter small-signal output power
 P_R — Reverse power dissipation, dc (no alternating component)
 p_R — Instantaneous total reverse power dissipation
 $P_{R(\text{AV})}$ — Reverse power dissipation, dc (with alternating component)

P_{RM} —Maximum (peak) total reverse power dissipation
P_T —Total nonreactive power input to all terminals
P_T —Nonreactive power input, instantaneous total, to all terminals
Q_S —Stored charge
r_{BB} —Interbase resistance
r_b'C_c —Collector-base time constant
r_{CE(sat)} —Saturation resistance, collector-to-emitter
r_{DS(on)} —Static drain-source on-state resistance
r_{ds(on)} —Small-signal drain-source on-state resistance
Re(h_{ie}) —Real part of common-emitter small-signal short-circuit input impedance
Re(h_{oe}) —Real part of common-emitter small-signal open-circuit output admittance
r_{e1e2(on)} —Small-signal emitter-emitter on-state resistance
r_i —Dynamic resistance at inflection point
R_θ —Thermal resistance
R_{θCA} —Thermal resistance, case to ambient
R_{θJA} —Thermal resistance, junction to ambient
R_{θJC} —Thermal resistance, junction to case
S, s —Source
T_A —Ambient temperature or free-air temperature
T_C —Case temperature
t_d —Delay time
t_{d(off)} —Turn-off delay time
t_{d(on)} —Turn-on delay time
t_f —Fall time
t_{fr} —Forward recovery time
T_j —Junction temperature
t_{off} —Turn-off time
t_{on} —Turn-on time
t_p —Pulse time
t_r —Rise time
t_{rr} —Reverse recovery time
t_s —Storage time
TSS —Tangential signal sensitivity
T_{stg} —Storage temperature
t_w —Pulse average time
U, u —Bulk (substrate)
V_{BB} —Base supply voltage (dc)
V_{BC} —Average or dc voltage, base to collector
V_{bc} —Instantaneous value of alternating component of base-collector voltage
V_{BE} —Average or dc voltage, base to emitter
v_{be} —Instantaneous value of alternating component of base-emitter voltage
V_(BR) —Breakdown voltage (dc)
v_(BR) —Breakdown voltage (instantaneous total)
V_{(BR)CBO} —Collector-base breakdown voltage, emitter open
V_{(BR)CEO} —Collector-emitter breakdown voltage, base open
V_{(BR)CER} —Collector-emitter breakdown voltage, resistance between base and emitter
V_{(BR)CES} —Collector-emitter breakdown voltage, base shorted to emitter
V_{(BR)CEV} —Collector-emitter breakdown voltage, specified voltage between base and emitter
V_{(BR)CEX} —Collector-emitter breakdown voltage, specified circuit between base and emitter
V_{(BR)EBO} —Emitter-base breakdown voltage, collector open
V_{(BR)ECO} —Emitter-collector breakdown voltage, base open
V_{(BR)E1E2} —Emitter-emitter breakdown voltage
V_{(BR)GSS} —Gate-source breakdown voltage
V_{(BR)GSSF} —Forward gate-source breakdown voltage
V_{(BR)GSSR} —Reverse gate-source breakdown voltage
V_{B2B1} —Interbase voltage
V_{CB} —Average or dc voltage, collector to base

v_{cb} —Instantaneous value of alternating component of collector-base voltage
V_{CB(fl)} —Collector-base dc open-circuit voltage (floating potential)
V_{CBO} —Collector-base voltage, dc, emitter open
V_{CC} —Collector supply voltage (dc)
V_{CE} —Average or dc voltage, collector to emitter
v_{ce} —Instantaneous value of alternating component of collector-emitter voltage
V_{CE(fl)} —Collector-emitter dc open-circuit voltage (floating potential)
V_{CEO} —Collector-emitter voltage (dc), base open
V_{CE(ofs)} —Collector-emitter offset voltage
V_{CER} —Collector-emitter voltage (dc), resistance between base and emitter
V_{CES} —Collector-emitter voltage (dc), base shorted to emitter
V_{CE(sat)} —Collector-emitter dc saturation voltage
V_{CEV} —Collector-emitter voltage (dc), specified voltage between base and emitter
V_{CEX} —Collector-emitter voltage (dc), specified circuit between base and emitter
V_{DD} —Drain supply voltage (dc)
V_{DG} —Drain-gate voltage
V_{DS} —Drain-source voltage
V_{DS(on)} —Drain-source on-state voltage
V_{DU} —Drain-substrate voltage
V_{EB} —Average or dc voltage, emitter to base
v_{eb} —Instantaneous value of alternating component of emitter-base voltage
V_{EB(fl)} —Emitter-base dc open-circuit voltage (floating potential)
V_{EBO} —Emitter-base voltage (dc), collector open
V_{EB1(sat)} —Emitter saturation voltage
V_{EC} —Average or dc voltage, emitter to collector
v_{ec} —Instantaneous value of alternating component of emitter-collector voltage
V_{EC(fl)} —Emitter-collector dc open-circuit voltage (floating potential)
V_{EC(ofs)} —Emitter-collector offset voltage
V_{EE} —Emitter supply voltage (dc)
V_F —For voltage-regulator and voltage-reference diodes: dc forward voltage. For signal diodes and rectifier diodes: dc forward voltage (no alternating component)
V_f —Alternating component of forward voltage (rms value)
V_F —Instantaneous total forward voltage
V_{F(AV)} —Forward voltage, dc (with alternating component)
V_{FM} —Maximum (peak) total forward voltage
V_{F(RMS)} —Total rms forward voltage
V_{GG} —Gate supply voltage (dc)
V_{GS} —Gate-source voltage
V_{GSF} —Forward gate-source voltage
V_{GS(off)} —Gate-source cutoff voltage
V_{GSR} —Reverse gate-source voltage
V_{GS(th)} —Gate-source threshold voltage
V_{GU} —Gate-substrate voltage
V_I —Inflection-point voltage
V_{OB1} —Base-1 peak voltage
V_P —Peak-point voltage
V_{pp} —Projected peak-point voltage
V_R —For voltage-regulator and voltage-reference diodes: dc reverse voltage. For signal diodes and rectifier diodes: dc reverse voltage (no alternating component)
V_r —Alternating component of reverse voltage (rms value)

V_R	—Instantaneous total reverse voltage	Y_{ob}	—Common-base small-signal short-circuit output admittance
$V_{R(AV)}$	—Reverse voltage, dc (with alternating component)	Y_{oc}	—Common-collector small-signal short-circuit output admittance
V_{RM}	—Maximum (peak) total reverse voltage	Y_{oe}	—Common-emitter small-signal short-circuit output admittance
V_{RRM}	—Repetitive peak reverse voltage	$Y_{oe(imag)}$	—Imaginary part of small-signal short-circuit output admittance (common-emitter)
$V_{R(RMS)}$	—Total rms reverse voltage	$Y_{oe(real)}$	—Real part of small-signal short-circuit output admittance (common-emitter)
V_{RSM}	—Nonrepetitive peak reverse voltage	Y_{os}	—Common-source small-signal short-circuit output admittance
V_{RT}	—Reach-through voltage	$Y_{os(imag)}$	—Common-source small-signal output susceptance
V_{RWM}	—Working peak reverse voltage	$Y_{os(real)}$	—Common-source small-signal output conductance
V_{SS}	—Source supply voltage (dc)	Y_{rb}	—Common-base small-signal short-circuit reverse transfer admittance
V_{SU}	—Source-substrate voltage	Y_{rc}	—Common-collector small-signal short-circuit reverse transfer admittance
$V_{(TO)}$	—Threshold voltage	Y_{re}	—Common-emitter small-signal short-circuit reverse transfer admittance
V_V	—Valley-point voltage	Y_{rs}	—Common-source small-signal short-circuit reverse transfer admittance
V_Z	—Regulator voltage, reference voltage (dc)	$Y_{rs(imag)}$	—Common-source small-signal reverse transfer susceptance
V_{ZM}	—Regulator voltage, reference voltage (dc at maximum rated current)	$Y_{rs(real)}$	—Common-source small-signal reverse transfer conductance
Y_{fb}	—Common-base small-signal short-circuit forward transfer admittance	Z_{if}	—Intermediate-frequency impedance
Y_{fc}	—Common-collector small-signal short-circuit forward transfer admittance	Z_m	—Modulator-frequency load impedance
Y_{fe}	—Common-emitter small-signal short-circuit forward transfer admittance	Z_{rf}	—Radio-frequency impedance
Y_{fs}	—Common-source small-signal short-circuit forward transfer admittance	$Z_{\theta JA(t)}$	—Junction-to-ambient transient thermal impedance
$Y_{fs(imag)}$	—Common-source small-signal forward transfer susceptance	$Z_{\theta JC(t)}$	—Junction-to-case transient thermal impedance
$Y_{fs(real)}$	—Common-source small-signal forward transfer conductance	$Z_{\theta(t)}$	—Transient thermal impedance
Y_{ib}	—Common-base small-signal short-circuit input admittance	Z_v	—Video impedance
Y_{ic}	—Common-collector small-signal short-circuit input admittance	Z_z	—Regulator impedance, reference impedance (small-signal at I_z)
Y_{ie}	—Common-emitter small-signal short-circuit input admittance	Z_{zk}	—Regulator impedance, reference impedance (small-signal at I_{zk})
$Y_{ie(imag)}$	—Imaginary part of small-signal short-circuit input admittance (common-emitter)	Z_{zm}	—Regulator impedance, reference impedance (small-signal at I_{zm})
$Y_{ie(real)}$	—Real part of small-signal short-circuit input admittance (common-emitter)		
Y_{is}	—Common-source small-signal short-circuit input admittance		
$Y_{is(imag)}$	—Common-source small-signal input susceptance		
$Y_{is(real)}$	—Common-source small-signal input conductance		

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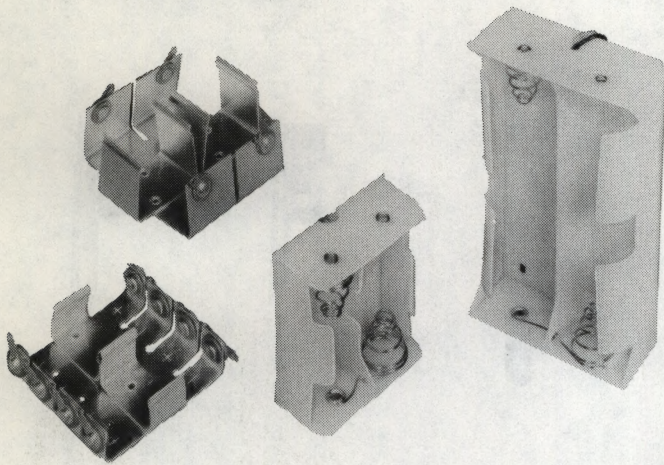
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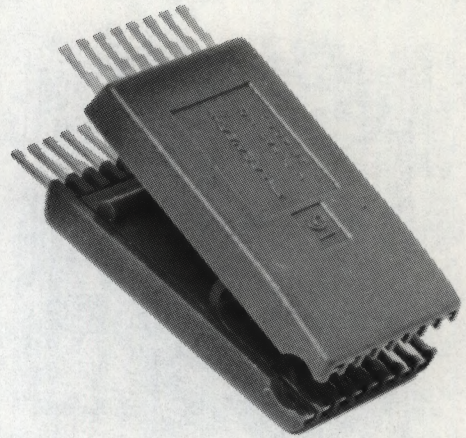
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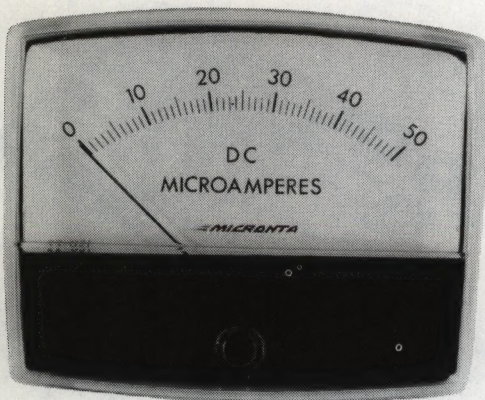
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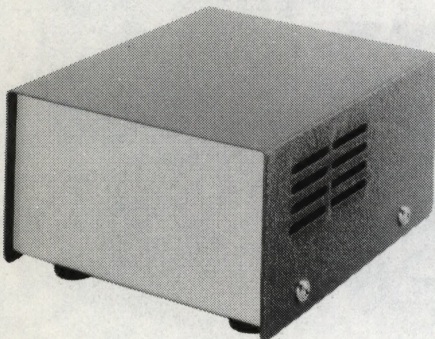
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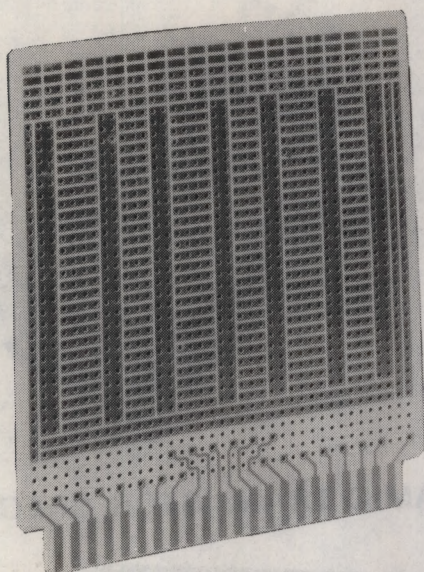
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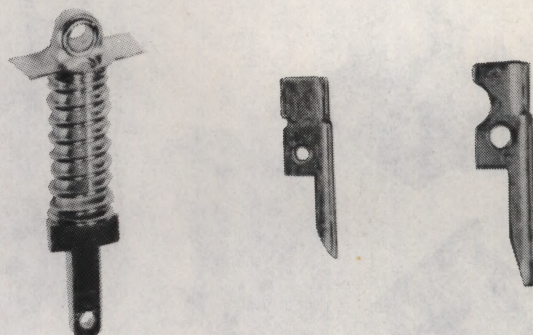
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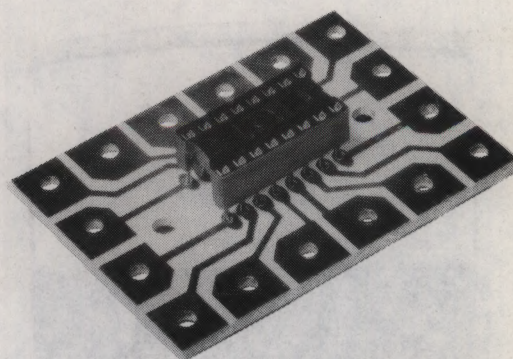
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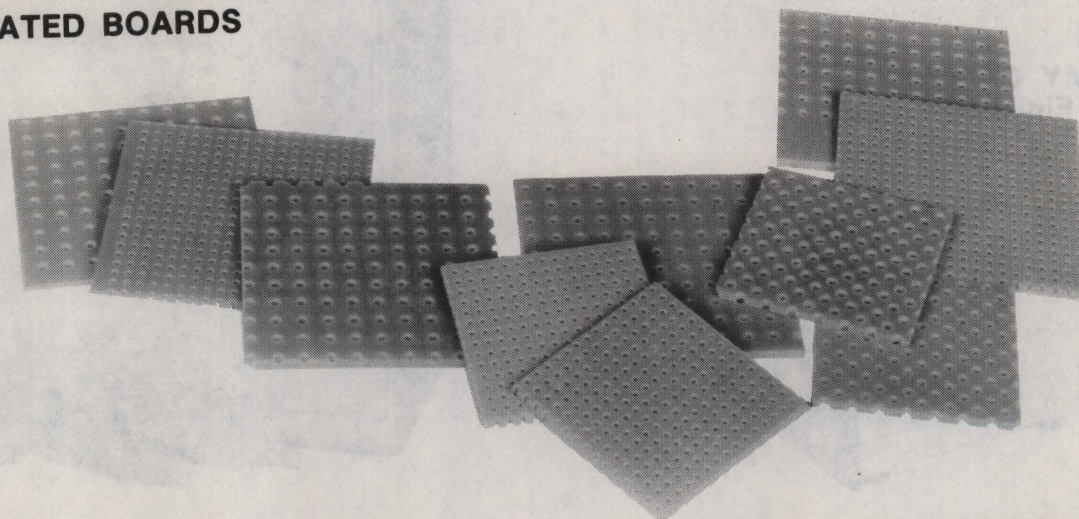
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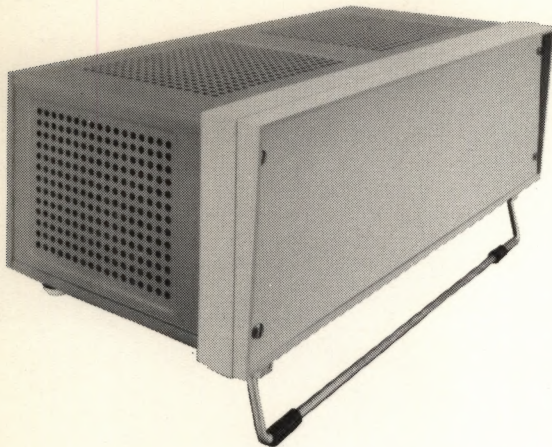
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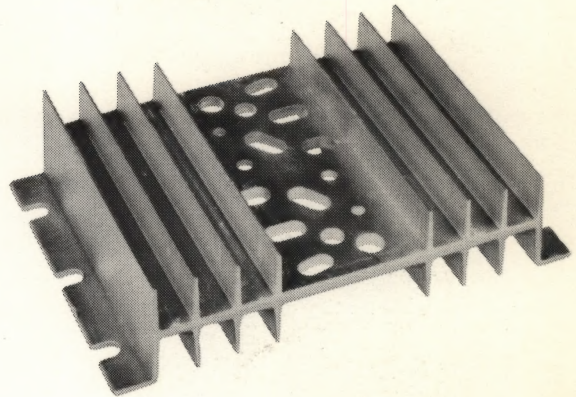
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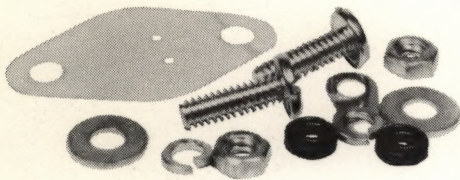
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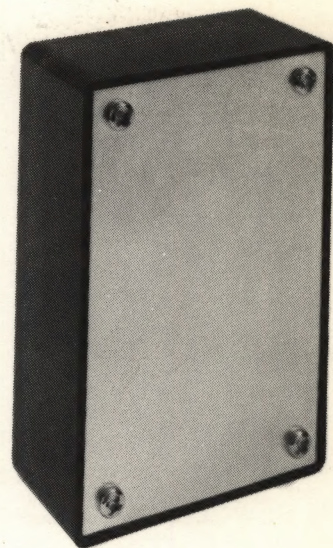
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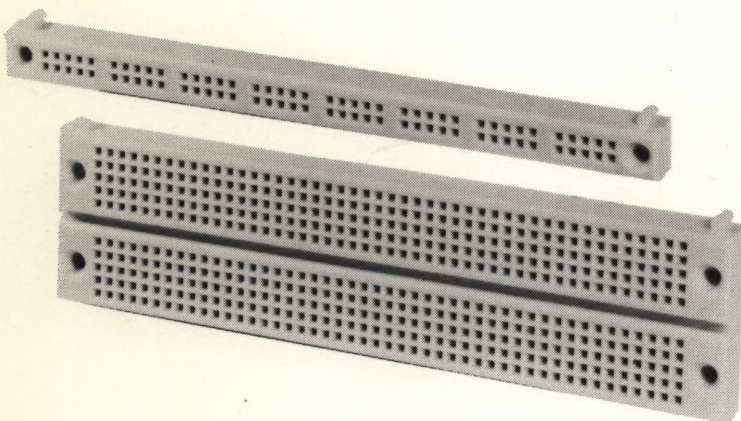
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